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OM nucleic - nucleic search, using sw model

Run on: October 7, 2003, 08:32:46 ; Search time 155.853 Seconds

(without alignments)  
8065.662 Million cell updates/sec

Title: US-08-951-733-13

Perfect score: 2848  
Sequence: 1 CACGCGTCCGGCAGCGCTG.....GATGCGGCGCCACGCGCTAT 2848

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08  
Maximum Match 1008

Listing first 45 summaries

Database : Issued\_Patents\_NA:\*

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4: /cgn2\_6/ptodata/2/lna/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/2/lna/PCUTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/2/lna/Backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2837	99.6	4015	3	US-08-851-843A-224
2	2837	99.6	4015	3	US-08-974-549A-1
3	2837	99.6	4015	3	US-08-854-050-224
4	2837	99.6	4015	4	US-09-430-323-224
5	2837	99.6	4015	4	US-09-572-423B-3
6	2837	99.6	4015	4	US-09-128-354-1
7	2837	99.6	4015	4	US-09-675-321-1
8	2837	99.6	4015	4	US-09-052-919-1
9	2837	99.6	4015	4	US-08-912-951-1
10	2837	99.6	4015	4	US-09-733-294A-3
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12	2671.2	93.8	4029	3	US-08-851-843A-173
13	2671.2	93.8	4029	3	US-08-974-549A-292
14	2671.2	93.8	4029	3	US-08-854-050-173
15	2671.2	93.8	4029	4	US-09-430-323-173
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17	2463	86.5	3855	4	US-08-912-951-4
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22	1517.6	53.3	4335	3	US-08-974-549A-6
23	1517.6	53.3	15418	4	US-09-783-203-1
24	1516	53.2	51552	4	US-09-733-294A-30
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36	385.8	13.5	389	3	US-08-854-050-62
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45	67.6	2.4	90	3	US-08-974-549A-697

#### ALIGNMENTS

RESULT 1  
US-08-851-843A-224  
Sequence 224, Application US/08851843A  
Patent No. 6093809  
GENERAL INFORMATION:  
APPLICANT: Cech, Thomas R.  
APPLICANT: Lingner, Joachim  
APPLICANT: Nakamura, Toru  
APPLICANT: Chapman, Karen B.  
APPLICANT: Morlin, Gregg B.  
APPLICANT: Harley, William H.  
APPLICANT: Andrews, William H.  
TITLE OF INVENTION: NO. 6093809e1 Telomerase  
NUMBER OF SEQUENCES: 225  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: United States of America  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION NUMBER: US/08/851,843A  
FILING DATE: 06-MAY-1997  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/846,017  
FILING DATE: 25-APR-1997  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/844,419  
FILING DATE: 18-APR-1997  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/724,643  
FILING DATE: 01-OCT-1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph T.  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 015389-0029300S  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 224:

Sequence 3, Appl1  
Sequence 3, Appl1  
Sequence 100, App  
Sequence 266, App  
Sequence 100, App  
Sequence 100, App  
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Sequence 62, Appl1  
Sequence 62, Appl1  
Sequence 8, Appl1  
Sequence 31, Appl1  
Sequence 9, Appl1  
Sequence 9, Appl1  
Sequence 7, Appl1  
Sequence 11, Appl1  
Sequence 697, App

SEQUENCE CHARACTERISTICS:  
LENGTH: 4015 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 56..3454  
OTHER INFORMATION: /product= "hprt"  
OTHER INFORMATION: /note= "human telomerase reverse  
transcriptase (hprt) catalytic protein  
component"  
OTHER INFORMATION: component"  
US-08-851-843A-224

Query Match 99.6%; Score 2837; DB 3; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 72 GCGGCTCCCGGCTGCGGAGCGGCTGCTGCTGCTGCGCAGCTACCGCGAGTGC 131  
Db 61 GCGGCTCCCGGCTGCGGAGCGGCTGCTGCTGCTGCGCAGCTACCGCGAGTGC 120  
QY 132 GCCGCTGGCCAGCTTCTGCTGCGGCGCTGGGCGCCAGAGGCTGGGCGCTGTGACAGCGG 191  
Db 121 GCCCTGGCCAGCTTCTGCTGCGGCGCTGGGCGCCAGAGGCTGGGCGCTGTGACAGCGG 180  
QY 192 GGACCGCGGCGCTTCCGCGGCGCTGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 251  
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QY 372 GCTCTGGAAGCGGCG 431  
Db 361 GCTCTGGAAGCGGCG 420  
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QY 492 CCGGCTGGGCGAGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 551  
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Db 781 TGCCCTGAGCGGAGGAGCGCGCTTGGGCGAGGCGCTGCGGCGCGCGCGCGCGCGCGCG 840

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QY 912 CACCTCTTGGAGGCGCTCTGCGACGCGCACTCCACCCATCCGTTGGCGCGCA 971  
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QY 972 GCACACGCGGCG 1031  
Db 961 GCACACGCGGCG 1020  
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QY 1932 CTTTCATCCCAAGGCTGACGGGCTGGCCGATTTGTGAACATGAGACTACCTGCTGGAGC 1991  
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QY 1992 CAGAAGCTCCGAGAGAAAGAGGGCCAGCGCTCCACCTCGAGGGGTGAAGGCACTGTT 2051  
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DB 2461 CAGTGGCTCTTTCAGAGCTTCTCTACGCTTATGTCACACAGCGGCTGCGCATGAGGG 2520  
QY 2532 CAAGTCTACGTCAGAGAGCTGCGAGGGGATCCCGAGGGGCTCCATCTCTCCACGCTGCTG 2591  
DB 2521 CAAGTCTACGTCAGAGAGCTGCGAGGGGATCCCGAGGGGCTCCATCTCTCTCCACGCTGCTG 2580  
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## RESULT 2

US-08-974-549A-1  
; Sequence 1, Application US/08974549A  
; Patent No. 6166178  
; GENERAL INFORMATION:  
; APPLICANT: Cech, Thomas R.  
; APPLICANT: Lingner, Joachim

APPLICANT: Nakamura, Toru  
APPLICANT: Chapman, Karen B.  
APPLICANT: Morlin, Gregg B.  
APPLICANT: Harley, Calvin B.  
APPLICANT: Andrews, William H.  
TITLE OF INVENTION: Human Telomerase Catalytic Subunit  
NUMBER OF SEQUENCES: 727  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/974,549A  
FILING DATE: 19-NOV-1997  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/724,643  
FILING DATE: 01-OCT-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/844,419  
FILING DATE: 18-APR-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/846,017  
FILING DATE: 25-APR-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/851,843  
FILING DATE: 06-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/854,050  
FILING DATE: 09-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/911,312  
FILING DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/912,951  
FILING DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/915,503  
FILING DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/17618  
FILING DATE: 01-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/17885  
FILING DATE: 01-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph Ted  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 015389-002610US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4015 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 56..3454  
OTHER INFORMATION: /product= "hTERT"  
OTHER INFORMATION: /note= "human telomerase reverse  
transcriptase (hTERT) catalytic protein





QY	312	CCGAGTGTCTGCAGAGGCTGTGCGAGCGCGCGCGCAAGAAACTGTGCTTGGCTTGGC	371
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QY	372	GCTGTGTGACGGGGGCGCGGGGGGGGGCGCGAGGCGCTTGCACACACGCTGGCGACGTA	431
Db	361	GCTGTGTGACGGGGGCGCGGGGGGGGGCGCGAGGCGCTTGCACACACGCTGGCGACGTA	420
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Db	421	CCTGTCCAAACAGGTGACCGACGCACTGTGGGGGAGCGGGGCGTGTGGGGCTGTCTGTGCG	480
QY	492	CCGCGTGGGGCGACACGCTGTGTTCACCTGTGGCAGCGTGTGGCGCTCTTTGTGTGTGT	551
Db	481	CCGCGTGGGGCGACACGCTGTGTTCACCTGTGGCAGCGTGTGGCGCTCTTTGTGTGTGT	540
QY	552	GAGCTCCACGTGTGGCGCTTACAGGTGTGGGGGCGCGCGCTGTACAGCTGTGGGGGCGCAC	611
Db	541	GAGCTCCACGTGTGGCGCTTACAGGTGTGGGGGCGCGCGCTGTACAGCTGTGGGGGCGCAC	600
QY	612	TCAGGCGCGGCGCGCGCACACAGCTAGTGAACCCCGAAGAGCGCTGTGGGATCGAAGCGGC	671
Db	601	TCAGGCGCGGCGCGCGCACACAGCTAGTGAACCCCGAAGAGCGCTGTGGGATCGAAGCGGC	660
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Db	841	GCGTGTGACCGAGTGTGACCGTGGTTTTCTGTGTGTGTGTGCACCTGTGCAGACGCCGCGGAAGAAC	900
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Db	1021	CCGGGTGTACCCCGAGACCAAGCACTTTCCTTACTCTGTCAAGCGCAACAAGAGACAGCTGTGCG	1080
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Db	1081	GCCCTCTTCTTACTAGCTCTGTGTGAGGCCACGCTGTGAGCTGTGGGCGCTGTGGAGGCTGTGGA	1140
QY	1152	GACCACTTCTTGTGGGTTTCAGAGCCCTGTGATGCGCAGGGGACTGTCCCGGAGGTTGGCCCGGCT	1211
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QY	1212	GCCCCAGGCGTACTGTGCAAAATGTGCGGCCCTTCTTCTGTGAGCTGTGTGGGAACAACAGCGCA	1271
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QY	1272	GTGCCCCCTACAGGGGTGTCTTCAAGACGCACTGTCCCGCTGTGAGCTGTGGTGTGGGAACAACAGCGCA	1331
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QY	1332	AGCCGGGTGTGTGCGCGGGGAGAAAGCCCAAGGGCTGTGTGGCGGCGCCCGGAGAGAGAGA	1391
Db	1321	AGCCGGGTGTGTGCGCGGGGAGAAAGCCCAAGGGCTGTGTGGCGGCGCCCGGAGAGAGAGA	1380

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Db	1381	CACACACCCC	CGCTGCCTGTCGACGTCCTCCGCCAGCA	CAGACACC	CCCTGCGACGTCGT	1440	
QY	1452	CGCGTCGT	GGGGGCGCTGCGTCGCGCGCGCTGGTGGCC	CAGGCGCT	GGGGGCTCCAGGCA	1511	
Db	1441	CGGCTTCG	GGGGGCGCTGCGTCGCGCGCGCTGGTGGCC	CAGGCGCT	GGGGGCTCCAGGCA	1500	
QY	1512	CACAGAACCG	CGCTTCCTCAGAGAACCCAAAGTTCATCTCTCC	TGGGGAAGCATG	CCCA	1571	
Db	1501	CACAGAACCG	CGCTTCCTCAGAGAACCCAAAGTTCATCTCTCC	TGGGGAAGCATG	CCCA	1560	
QY	1572	GCTCTCG	TCGACGAGCTTGACGTGGAGATGACCGCTGG	GGGACATGCGCTTG	CGCAG	1631	
Db	1561	GCTCTCG	TCGACGAGCTTGACGTGGAGATGACCGCTGG	GGGACATGCGCTTG	CGCAG	1620	
QY	1632	GAGCCCAAG	GGGTGGCTGTCTTCCGGCCGACAGACACCG	CTGCGGTAGAGATCT	GGC	1691	
Db	1621	GAGCCCAAG	GGGTGGCTGTCTTCCGGCCGACAGACACCG	CTGCGGTAGAGATCT	GGC	1680	
QY	1692	CAAGTTC	CGACATGGCTGATGAGTGTACGTGCTGACG	TGGCTCAGGCTCTT	CTTTTA	1751	
Db	1681	CAAGTTC	CGACATGGCTGATGAGTGTACGTGCTGACG	TGGCTCAGGCTCTT	CTTTTA	1740	
QY	1752	TGTCACG	GAGACACGTTTCAAAAGACAGGCTCTTTT	CTACCGGAAGTGTCT	GAG	1811	
Db	1741	TGTCACG	GAGACACGTTTCAAAAGACAGGCTCTTTT	CTACCGGAAGTGTCT	GAG	1800	
QY	1812	CAAGTTC	GAAGCANTGGAAATCAGACACACTTTGA	AGAGGGTGCAGCTGCGGGAGCT	GTG	1871	
Db	1801	CAAGTTC	GAAGCANTGGAAATCAGACACACTTTGA	AGAGGGTGCAGCTGCGGGAGCT	GTG	1860	
QY	1872	GGAAAC	CAGAGGTCAAGGCTGACGATCGGGGAAGCC	CAGGCCCCCTCTGCTGAC	GTCAACATCTG	1931	
Db	1861	GGAAAC	CAGAGGTCAAGGCTGACGATCGGGGAAGCC	CAGGCCCCCTCTGCTGAC	GTCAACATCTG	1920	
QY	1932	CTTCAT	CCCCCAAGCCTGACGGGGCTGCGGCCAT	TTGTGAACATG	GAATGATCGTGGGAGC	1991	
Db	1921	CTTCAT	CCCCCAAGCCTGACGGGGCTGCGGCCAT	TTGTGAACATG	GAATGATCGTGGGAGC	1980	
QY	1992	CAGAAC	GTTCGCGAGAGAAAAGAGGGCCGACGCT	CTCACGTCGAGGGTGA	AGGACATCTG	2051	
Db	1981	CAGAAC	GTTCGCGAGAGAAAAGAGGGCCGACGCT	CTCACGTCGAGGGTGA	AGGACATCTG	2040	
QY	2052	CAGCGT	GCTCAACTACGAGCGGGCGCGGCCG	CCCTCTGCGGGCCCTTGTG	TGTCGAGG	2111	
Db	2041	CAGCGT	GCTCAACTACGAGCGGGCGCGGCCG	CCCTCTGCGGGCCCTTGTG	TGTCGAGG	2100	
QY	2112	CCTGG	ACATATCCACAGAGGCGCTTGCGACCT	TGCTGCTGCTGGCGCC	CAGACCC	2171	
Db	2101	CCTGG	ACATATCCACAGAGGCGCTTGCGACCT	TGCTGCTGCTGGCGCC	CAGACCC	2160	
QY	2172	GCGCG	CTGAGCTGATCTTGTTCAGAGTGAATGTA	ACGGGCGCGTACGAC	ATCCCCCA	2231	
Db	2161	GCGCG	CTGAGCTGATCTTGTTCAGAGTGAATGTA	ACGGGCGCGTACGAC	ATCCCCCA	2220	
QY	2232	GGAC	AGGCTCAGGAGGTCATTCGCGACGAT	ATCAAAACCCAGAAACAGT	ACTGTCGCG	2291	
Db	2221	GGAC	AGGCTCAGGAGGTCATTCGCGACGAT	ATCAAAACCCAGAAACAGT	ACTGTCGCG	2280	
QY	2292	TCGG	TATGCCGTGTCAGAAAGCGCCCAT	TGGGCAAGGCGCTTCA	AGAGCA	2351	
Db	2281	TCGG	TATGCCGTGTCAGAAAGCGCCCAT	TGGGCAAGGCGCTTCA	AGAGCA	2340	
QY	2352	CGTCT	TAACCTTGACAGACTTCAGACCGT	ATATGCGAGACAGTTG	CGTCACTG	CAGGA	2411
Db	2341	CGTCT	TAACCTTGACAGACTTCAGACCGT	ATATGCGAGACAGTTG	CGTCACTG	CAGGA	2400
QY	2412	GAC	AGCCCGGTGAGGGATGCGCGTGTAT	GAGAGAGGCTCC	CCGATATGAGG	CAG	2471
Db	2401	GAC	AGCCCGGTGAGGGATGCGCGTGTAT	GAGAGAGGCTCC	CCGATATGAGG	CAG	2460
QY	2472	CAG	TGGCCCTTTCGACGCTTCTCAACGCT	TATGTGCACACACCCCGT	GCCATCAAGG	C	2531





Db 721 GAGCGGGGGGAGTGCAGCCGAAAGTCTGCGTCCCAAGAGGCCAGGGCTGGGCG 780  
QY 792 TGCCCTTAGCCGAGCGAGCGAGCCGTTGGGCAAGGGTCCCTGGGCCACCCGGGCAAGAC 851  
Db 781 TGCCCTTAGCCGAGCGAGCGAGCCGTTGGGCAAGGGTCCCTGGGCCACCCGGGCAAGAC 840  
QY 852 GCGTGGACCAAGTACAGTGGTCTCTGTGTGTACCTCCAGACCCGCCGAAGAAGC 911  
Db 841 GCGTGGACCAAGTACAGTGGTCTCTGTGTGTACCTCCAGACCCGCCGAAGAAGC 900  
QY 912 CACCTCTTTGAGAGGGTGGCTCTCTGTGGCAGCGCCACTCCCAACCATCCGTTGGGCGGCA 971  
Db 901 CACCTCTTTGAGAGGGTGGCTCTCTGTGGCAGCGCCACTCCCAACCATCCGTTGGGCGGCA 960  
QY 972 GCACACGCGGGGCCCCCATCCACATCGCGGCCACACAGTCCCTGGGACACGCTTGTCC 1031  
Db 961 GCACACGCGGGGCCCCCATCCACATCGCGGCCACACAGTCCCTGGGACACGCTTGTCC 1020  
QY 1032 CCGGCTGTAGCGGAGACCAAGCACTTCCTCTACTCTCTAGGCGCAAGAAGAGAGCTGCG 1091  
Db 1021 CCGGCTGTAGCGGAGACCAAGCACTTCCTCTACTCTCTAGGCGCAAGAAGAGAGCTGCG 1080  
QY 1092 GCCCTCTCTCTACTCTCTCTGTGAGGCCAGCTGAGTGGGCGCTGGGAGGCTCGTGA 1151  
Db 1081 GCCCTCTCTCTACTCTCTCTGTGAGGCCAGCTGAGTGGGCGCTGGGAGGCTCGTGA 1140  
QY 1152 GACCATCTTCTGTGGTTCAGAGCCCTGAGTCCAGGAGCTCCCGCAGGTTGCCCGCT 1211  
Db 1141 GACCATCTTCTGTGGTTCAGAGCCCTGAGTCCAGGAGCTCCCGCAGGTTGCCCGCT 1200  
QY 1212 GCCCCAGCGCTACTGCGAAATGCGGGCCCTGTTCTGTGAGCTGTTGGGAACACAGCGCA 1271  
Db 1201 GCCCCAGCGCTACTGCGAAATGCGGGCCCTGTTCTGTGAGCTGTTGGGAACACAGCGCA 1260  
QY 1272 GTGCCCTTAGCGGGTGTCTCTCAAGAGCACTGCGCCCTGGAGCTGCGGTCAACCCAGC 1331  
Db 1261 GTGCCCTTAGCGGGTGTCTCTCAAGAGCACTGCGCCCTGGAGCTGCGGTCAACCCAGC 1320  
QY 1332 AGCGGTGTGTGTGCCGGGAGAAAGCCCAAGGCTGTGTGGCGGCCCCGAGAGAGAGA 1391  
Db 1321 AGCGGTGTGTGTGCCGGGAGAAAGCCCAAGGCTGTGTGGCGGCCCCGAGAGAGAGA 1380  
QY 1392 CACAGAGCCCGGTGCGCGTGTGAGCTGTCGCCCTGAGAGCAAGAGCCCTGGAGAGTGA 1451  
Db 1381 CACAGAGCCCGGTGCGCGTGTGAGCTGTCGCCCTGAGAGCAAGAGCCCTGGAGAGTGA 1440  
QY 1452 CGGCTTGTGTGGGCGCTGCGCGCGGCTGTGTGCCCGCCAGGCTTGGGGCTCCAGGCA 1511  
Db 1441 CGGCTTGTGTGGGCGCTGCGCGCGGCTGTGTGCCCGCCAGGCTTGGGGCTCCAGGCA 1500  
QY 1512 CAACGAAAGCGGCTTCTCTAGAAACACCAAGAGTTCATCTCCCTGGGGAAGCATGCGCA 1571  
Db 1501 CAACGAAAGCGGCTTCTCTAGAAACACCAAGAGTTCATCTCCCTGGGGAAGCATGCGCA 1560  
QY 1572 GCTCTGCTCTAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1631  
Db 1561 GCTCTGCTCTAGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1620  
QY 1632 GAGCCCAAGGGGTGGCTGTGTCCGGCCGAGAGCAAGTGTGGGTGAGAGAGTCTGGC 1691  
Db 1621 GAGCCCAAGGGGTGGCTGTGTCCGGCCGAGAGCAAGTGTGGGTGAGAGAGTCTGGC 1680  
QY 1692 CAAGTTCCTGACTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1751  
Db 1681 CAAGTTCCTGACTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1740  
QY 1752 TGTTCAGGAGAGCAAGTTCCTGAGAGAGAGAGTTCCTTCTTCTACCGGAAGAGTGTGAG 1811  
Db 1741 TGTTCAGGAGAGCAAGTTCCTGAGAGAGAGAGTTCCTTCTTCTACCGGAAGAGTGTGAG 1800  
QY 1812 CAAGTTCAGAAAGATGGATGATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1871

Db 1801 CAAGTTCAGAAAGATGGATGATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 1860  
QY 1872 GGAAGCAGAGGTGTCAGGAGCATCCGGAAGCCAGGCCCTGCTGATCAGTCCAGTCCG 1931  
Db 1861 GGAAGCAGAGGTGTCAGGAGCATCCGGAAGCCAGGCCCTGCTGATCAGTCCAGTCCG 1920  
QY 1932 CTTTCATCCCAAGCTTACAGGGGCTGCGGCCGATTTGTAAACATGATGATGATGATGATGAT 1991  
Db 1921 CTTTCATCCCAAGCTTACAGGGGCTGCGGCCGATTTGTAAACATGATGATGATGATGATGAT 1980  
QY 1992 CAGAAAGTTCGCGAGAGAAAGAGGGCGAGGCTGATACCTCCAGGGGTGAAGGACTGT 2051  
Db 1981 CAGAAAGTTCGCGAGAGAAAGAGGGCGAGGCTGATACCTCCAGGGGTGAAGGACTGT 2040  
QY 2052 CAGGCTCTCAACTACAGAGGGGCGCGGCCCTGCTGAGGCTCTGAGGCTCTGAGTGTGAG 2111  
Db 2041 CAGGCTCTCAACTACAGAGGGGCGCGGCCCTGCTGAGGCTCTGAGGCTCTGAGTGTGAG 2100  
QY 2112 CTTGAGCATATCCAGAGGGCTTGGCCACTTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGT 2171  
Db 2101 CTTGAGCATATCCAGAGGGCTTGGCCACTTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGT 2160  
QY 2172 GCGGCTGAGGTACTTGTGCAAGGTGATGTGAGGGGGCGTGAAGACATCCGCCCA 2231  
Db 2161 GCGGCTGAGGTACTTGTGCAAGGTGATGTGAGGGGGCGTGAAGACATCCGCCCA 2220  
QY 2232 GGACAGGCTACAGGAGTCACTGCGACATCATCAACCCAGAACAGTACTGCTGCG 2291  
Db 2221 GGACAGGCTACAGGAGTCACTGCGACATCATCAACCCAGAACAGTACTGCTGCG 2280  
QY 2292 TCGGTATGCGGTGTCCAGAAAGCCGCCATGGGCAAGTCCGCAAGGCTTCAAGAGCCA 2351  
Db 2281 TCGGTATGCGGTGTCCAGAAAGCCGCCATGGGCAAGTCCGCAAGGCTTCAAGAGCCA 2340  
QY 2352 CGTCTACTCTTGACAGACCTCCAGCGCTCATGCAAGTGTGTGCTGCTGCTGCTGCTGCTGCT 2411  
Db 2341 CGTCTACTCTTGACAGACCTCCAGCGCTCATGCAAGTGTGTGCTGCTGCTGCTGCTGCT 2400  
QY 2412 GACCAGCCCGCTGAGGAGTCCGCTGATCATGAGCAGAGTCTCTCCCTGATGAGGCGAG 2471  
Db 2401 GACCAGCCCGCTGAGGAGTCCGCTGATCATGAGCAGAGTCTCTCCCTGATGAGGCGAG 2460  
QY 2472 CAGTGGCTCTTGACAGTCTTCTTCAAGCTTCATGTGCAACAGGCGCTGCGCATGAGGG 2531  
Db 2461 CAGTGGCTCTTGACAGTCTTCTTCAAGCTTCATGTGCAACAGGCGCTGCGCATGAGGG 2520  
QY 2532 CAAGTCTACTGTCAGTGGCGAGGGGATCCGCAAGGGCTCCATCCTCCAGGCTGCTG 2591  
Db 2521 CAAGTCTACTGTCAGTGGCGAGGGGATCCGCAAGGGCTCCATCCTCCAGGCTGCTG 2580  
QY 2592 CAGCCTGTGTAGCGGAGATGGAACAAAGCTGTTGCGGGGATTCGGGGGAGCGGCT 2651  
Db 2581 CAGCCTGTGTAGCGGAGATGGAACAAAGCTGTTGCGGGGATTCGGGGGAGCGGCT 2640  
QY 2652 GCTCTGCGTGTGTGTGATGATTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2711  
Db 2641 GCTCTGCGTGTGTGTGATGATTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2700  
QY 2712 CTTCTCAGAGACCTGTGTCGAGGTGTCCTGAGTATGGTGGGTGTGAACCTTGGGGA 2771  
Db 2701 CTTCTCAGAGACCTGTGTCGAGGTGTCCTGAGTATGGTGGGTGTGAACCTTGGGGA 2760  
QY 2772 GACAGTGTGAACCTTCCCTGTAGAAAGAGAGGCTTGGTGGCAGAGGCTTGTTCAGAT 2831  
Db 2761 GACAGTGTGAACCTTCCCTGTAGAAAGAGAGGCTTGGTGGCAGAGGCTTGTTCAGAT 2820  
QY 2832 GCGGCGCCAGCGCTAT 2848  
Db 2821 GCGGCGCCAGCGCTAT 2837

RESULT 5  
US-09-572-423B-3



```

: Sequence 3, Application US/09572423B
: Patent No. 6331399
: GENERAL INFORMATION:
: APPLICANT: Brett P. Monia
: APPLICANT: William A. Garde
: APPLICANT: Edward Mancewicz
: TITLE OF INVENTION: ANTIMENSE MODULATION OF TERT EXPRESSION
: FILE REFERENCE: ISPH-0462
: CURRENT APPLICATION NUMBER: US/09/572,423B
: CURRENT FILING DATE: 2000-05-16
: NUMBER OF SEQ ID NOS: 29
: SEQ ID NO 3
: LENGTH: 4015
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (56) ... (3454)
: US-09-572-423B-3

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Query Match	99.6%	Score 2837;	DB 4;	Length 4015;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 2837; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

OY	12	GCAGCGCTCCGTCGCGGCGACGTGGGAGACCCCTGGCCCCCGCACACCCCGCATGCC	71
Db	1	GCACCGCTCGCTCTGCTGCGCACGTGGGAAACCTGGCCCCCGCACACCCCGCATGCC	60
OY	72	GCAGCGTCCCGCTGACGAGCGTGGCGCTGCTGCTGGCGACCCACTACCGGAGTGGCT	131
Db	61	CGCGGCTCCCGCTGCGAGCGCTGGCGCTCCCTGCTGGCGACCCACTACCGGAGTGGCT	120
OY	132	GCAGCTGGCCACGTTCTGTGCGCGCTGGGAGCCCCAGGACGTGGCGGCTGTGACAGCGCG	191
Db	121	GCAGCTGGCCACGTTCTGTGCGCGCTGGGAGCCCCAGGACGTGGCGGCTGTGACAGCGCG	180
OY	192	GGACCCGCGCGGCTTTCGCGCGCGCTGGTGGCCCACTGCTGGTGGCTGGCTGGGAGCG	251
Db	181	GGACCCGCGCGGCTTTCGCGCGCGCTGGTGGCCCACTGCTGGTGGCTGGCTGGGAGCG	240
OY	252	ACGCGCGCGCGCGCGCGCGCTCTCCGCGACAGGTCTCTGACCTGGAAGGAGCTGTGGC	311
Db	241	ACGCGCGCGCGCGCGCGCGCTCTCCGCGACAGGTCTCTGACCTGGAAGGAGCTGTGGC	300
OY	312	CCGAGTGTGCAGAGGCTGTGCGAGCGCGCGCGCGAGAACGCTGTGCGCTTCGAGCTTGC	371
Db	301	CCGAGTGTGCAGAGGCTGTGCGAGCGCGCGCGCGAGAACGCTGTGCGCTTCGAGCTTGC	360
OY	372	GCTGCTGGACCGGCG	431
Db	361	GCTGCTGGACCGGCG	420
OY	432	CCTGCGCCAAACAGGTGAGCAGCAGCACTCGCGGCGGAGCGGCGGCGGCGGCGGCGG	491
Db	421	CCTGCGCCAAACAGGTGAGCAGCAGCACTCGCGGCGGAGCGGCGGCGGCGGCGGCGG	480
OY	492	CCGCGTGGGCGACGACGCTGTGTTACACTCTGGCACGCTGCGCGCTCTTGTGCTGGT	551
Db	481	CCGCGTGGGCGACGACGCTGTGTTACACTCTGGCACGCTGCGCGCTCTTGTGCTGGT	540
OY	552	GGCTTCCCAAGCTGCGCTTACACAGGTGTGCGGCGCGCGCTGTACACAGCTGGCGCTCCAC	611
Db	541	GGCTTCCCAAGCTGCGCTTACACAGGTGTGCGGCGCGCGCTGTACACAGCTGGCGCTCCAC	600
OY	612	TCAGGCGCGCGCGCGCGCACAGCGTGAAGGAGCCCGAAGGCGTCTGGGATGCGAAGCGGCG	671
Db	601	TCAGGCGCGCGCGCGCGCACAGCGTGAAGGAGCCCGAAGGCGTCTGGGATGCGAAGCGGCG	660
OY	672	CTGGAACCATTAAGCTGACAGGAGCGCGGCGTCCCGCTGGCGCTGCGACGCCCGGAGTCAG	731
Db	661	CTGGAACCATTAAGCTGACAGGAGCGCGGCGTCCCGCTGGCGCTGCGACGCCCGGAGTCAG	720
OY	732	GAGCGCGCGGCGGACGTGCCAGCGCAAGTCTGCGCTTGGCCCAAGAGGCCCGAGCGTGGCGC	791

Db	721	GAGCGCGGGGGCAGTGGCACCGCAAGTCTCCGTTGGCCAAAGAGCCCAAGGCTGGCGC	780
QY	792	TGCCCTTAGCCGAGCGAGCGAGCGCCGTTGGGAGAGGGTCTGGGCGCCACCCGGGAGAGAC	851
Db	781	TGCCCTTAGCGGAGCGGAGCGCCGTTGGGAGAGGGGTCCTGGGCGCCACCCGGGAGAGAC	840
QY	852	GCGTGGACCGAGTGAACCGTGGTCTCTGTGTGGTGTCACTGTCCAGAACCCGGCGAAGAAC	911
Db	841	GCGTGGACCGAGTGAACCGTGGTCTCTGTGTGGTGTCACTGTCCAGAACCCGGCGAAGAAC	900
QY	912	CACCTCTTTGGAAGGGTGGCTCTCTGGAGCGGCACTGCCACCCATCCGTGGGCGCGCA	971
Db	901	CACCTCTTTGGAAGGGTGGCTCTCTGGAGCGGCACTGCCACCCATCCGTGGGCGCGCA	960
QY	972	GCACACGCGGGGCCCCCATCCAGATCGCGGCACACAGTCCCTGGGACAGCGCTTGTCC	1031
Db	961	GCACACGCGGGGCCCCCATCCAGATCGCGGCACACAGTCCCTGGGACAGCGCTTGTCC	1020
QY	1032	CCCGGTGTACGCCCGAGACCAAGACATTCCTACTCTCAGCGCAAGAGACAGCTCGC	1091
Db	1021	CCCGGTGTACGCCCGAGACCAAGACATTCCTACTCTCAGCGCAAGAGAGACAGCTCGC	1080
QY	1092	GCCCTCCTCTACTCAAGCTCTCTGAGGCCCAAGCTGACTGTGGCCCTGGAGAGCTGTGGA	1151
Db	1081	GCCCTCCTCTACTCAAGCTCTCTGAGGCCCAAGCTGACTGTGGCCCTGGAGAGCTGTGGA	1140
QY	1152	GACCATCTTCTGGGTTCCAGAGCCCTGGATCCAGAGGACTCCCGCGAAGTGGCCCGGCT	1211
Db	1141	GACCATCTTCTGGGTTCCAGAGCCCTGGATCCAGAGGACTCCCGCGAGTTGGCCCGGCT	1200
QY	1212	GCCCCAGCGCTACTGGCAAAATGCGGCCCCCTGTTCTGTGAGCTGCTTGGGAACACGCGCA	1271
Db	1201	GCCCCAGCGCTACTGGCAAAATGCGGCCCCCTGTTCTGTGAGCTGCTTGGGAACACGCGCA	1260
QY	1272	GTGCCCCCTACGGGGGTGTCTCTCAGAGCGCACTGCCCGTGTGGAGCTGGGGTACCCCAACG	1331
Db	1261	GTGCCCCCTACGGGGGTGTCTCTCAGAGCGCACTGCCCGTGTGGAGCTGGGGTACCCCAACG	1320
QY	1332	AGCGGCTCTGTGGCCCGGGAGAAAGCCCAAGGGCTCTGTGGCGGGCCCCGAGAGAGAGAGA	1391
Db	1321	AGCGGCTCTGTGTGCCCGGGAGAAAGCCCAAGGGCTCTGTGGCGGGCCCCGAGAGAGAGAGA	1380
QY	1392	CACAGACCCCGCTGCGCTGTGTGATGATGCTCCGCCAGCAGACAGACCCCTGTGGCAGGTGTA	1451
Db	1381	CACAGACCCCGCTGCGCTGTGTGATGATGCTCCGCCAGCAGACAGACCCCTGTGGCAGGTGTA	1440
QY	1452	CGGCTCTGTGGGGGCTGCTGTGCGCGCGGCTGTGCCCCAGGCTCTGTGGGCTCCAGGCA	1511
Db	1441	CGGCTCTGTGGGGGCTGCTGTGCGCGCGGCTGTGCCCCAGGCTCTGTGGGCTCCAGGCA	1500
QY	1512	CAACGAAGCGCGCTCCTCAGAGAACACCAAGAAAGTTCACTCCCGGGGGAAGCATGCCAA	1571
Db	1501	CAACGAAGCGCGCTCCTCAGAGAACACCAAGAAAGTTCACTCCCGGGGGAAGCATGCCAA	1560
QY	1572	GCTCTCGCTGAGAGAGCTGAGCTGTGAAGATGAGCGTGGCGGACTGTGGCTGTGCGCAG	1631
Db	1561	GCTCTCGCTGAGAGAGCTGAGCTGTGAAGATGAGCGTGGCGGACTGTGGCTGTGCGCAG	1620
QY	1632	GAGCCCAAGGGGTGGCTGTGTTCCGGCGCGCAGAGCACCGTGTGGTGAGAGATCTTGGC	1691
Db	1621	GAGCCCAAGGGGTGGCTGTGTTCCGGCGCGCAGAGCACCGTGTGGTGAGAGATCTTGGC	1680
QY	1692	CAAGTCTCTGTACGTGGCTGATGAGTGTACGTGTGATGAGTGGTCAAGGTCCTTCTTTTA	1751
Db	1681	CAAGTCTCTGTACGTGGCTGATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1740
QY	1752	TGTACAGGAGACCAAGTTCAAAAGAACAGGCTTTTCTTACCGGGAAGATGTCTGTGAG	1811
Db	1741	TGTACAGGAGACCAAGTTCAAAAGAACAGGCTTTTCTTACCGGGAAGATGTCTGTGAG	1800
QY	1812	CAAGTTCGAAGCATTTGGATTCAGACAGCACTTGAAGAGGGTGCAGCTGGGGAGCTGTC	1871

Db 1801 CAAGTTCGAAAGCATTTGGAAATCAGACAGCACTTGAAGAGGTGCAGCTGCCGGAGCTGTC 1860  
QY 1872 GGAAGCAGAGGTGAGGAGCATGCGGAAGCCAGGCCCTGCTGATGCTCAGACTCCG 1931  
Db 1861 GGAAGCAGAGGTGAGGAGCATGCGGAAGCCAGGCCCTGCTGATGCTCAGACTCCG 1920  
QY 1932 CTTCATCCCAAGGCTTACGGGCTGCGGCGGATTTGTAACTGACATACGTCGTCGGAGC 1991  
Db 1921 CTTCATCCCAAGGCTTACGGGCTGCGGCGGATTTGTAACTGACATACGTCGTCGGAGC 1980  
QY 1992 CAGAACCTTCGCGAGAGAAAAGAGGGCGGAGCTCTCACTCGAGGGTGAAGGACCTTT 2051  
Db 1981 CAGAACCTTCGCGAGAGAAAAGAGGGCGGAGCTCTCACTCGAGGGTGAAGGACCTTT 2040  
QY 2052 CAGGCTCTCACTACGAGGGGCGGCGGCCGCCCTCTGCGGCGCTCTGTCGTCGG 2111  
Db 2041 CAGGCTCTCACTACGAGGGGCGGCGGCCGCCCTCTGCGGCGCTCTGTCGTCGG 2100  
QY 2112 CTTGAGGATATCCAGAGGGGCGGCGGCGGCTGCTGCTGCTGTCGGGCGGCGGAGCC 2171  
Db 2101 CTTGAGGATATCCAGAGGGGCGGCGGCGGCTGCTGCTGCTGTCGGGCGGCGGAGCC 2160  
QY 2172 GCCGCTGAGCTGACTTTGTCAAGTGTGATGTAGCGGGCGGTCAGACACATCCGCCA 2231  
Db 2161 GCCGCTGAGCTGACTTTGTCAAGTGTGATGTAGCGGGCGGTCAGACACATCCGCCA 2220  
QY 2232 GGACAGGCTCAGCGAGGTCAATGCCAGCATCATCAAAACCCAGAACACGTAAGTCGTCG 2291  
Db 2221 GGACAGGCTCAGCGAGGTCAATGCCAGCATCATCAAAACCCAGAACACGTAAGTCGTCG 2280  
QY 2292 TCGGTATGCGGTGTCAGAGAGGCGGCGGCGGCGGAGTCCGCAAGGCGCTTCAAGAGCA 2351  
Db 2281 TCGGTATGCGGTGTCAGAGAGGCGGCGGCGGCGGAGTCCGCAAGGCGCTTCAAGAGCA 2340  
QY 2352 CGTCTACCTTTCAGACAGCTTCAGCCGTCATGCGACAGATTCGTGCTCACTTCAGAGA 2411  
Db 2341 CGTCTACCTTTCAGACAGCTTCAGCCGTCATGCGACAGATTCGTGCTCACTTCAGAGA 2400  
QY 2412 GACCAAGCCGCTGAGGAGTCCGTCATGCGACAGAGTCCCTCCCTGAATGAGGCGAG 2471  
Db 2401 GACCAAGCCGCTGAGGAGTCCGTCATGCGACAGAGTCCCTCCCTGAATGAGGCGAG 2460  
QY 2472 CAGTGGCTCTTCAGAGCTTCTCTAGCTTCATGTGACACACGCGGTCGATCAGAGG 2531  
Db 2461 CAGTGGCTCTTCAGAGCTTCTCTAGCTTCATGTGACACACGCGGTCGATCAGAGG 2520  
QY 2532 CAAGTCTACGTCAGTGCAGAGGAGTCCGCAAGGCTCCATCTCTCCAGAGTCTCTG 2591  
Db 2521 CAAGTCTACGTCAGTGCAGAGGAGTCCGCAAGGCTCCATCTCTCCAGAGTCTCTG 2580  
QY 2592 CAGGCTCTGCTAGGCGCATGAGAACAAAGCTGTTGCGGGGATTCGGCGGGACGGGCT 2651  
Db 2581 CAGGCTCTGCTAGGCGCATGAGAACAAAGCTGTTGCGGGGATTCGGCGGGACGGGCT 2640  
QY 2652 GCTCCCTGCTTGGTGGATGATTTCTGTTGGTGAACCTCACTCAACCCAGCGGAAAC 2711  
Db 2641 GCTCCCTGCTTGGTGGATGATTTCTGTTGGTGAACCTCACTCAACCCAGCGGAAAC 2700  
QY 2712 CTTCCTCAGAGACCTGCTGCGAGGTGTCCTGATGATGCTGCTGCTGTAAGTTCGGA 2771  
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QY 2772 GACAGTGTGTAAGTCTCCCTGTAGAACAGAGGCCCTGGTGGCAAGGCTTTGTTAGAT 2831  
Db 2761 GACAGTGTGTAAGTCTCCCTGTAGAACAGAGGCCCTGGTGGCAAGGCTTTGTTAGAT 2820  
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RESULT 6  
US-09-128-354-1

Sequence 1, Application US/09128354  
Patent No. 6337200  
GENERAL INFORMATION:  
APPLICANT: Morin, Gregg B.  
APPLICANT: Genon Corporation  
TITLE OR INVENTION: Human Telomerase Catalytic Subunit Variants  
FILE REFERENCE: 015389-003310US  
CURRENT FILING DATE: US/09/128, 354  
EARLIER FILING DATE: US 08/851, 843  
EARLIER FILING DATE: 1997-05-06  
EARLIER APPLICATION NUMBER: US 08/854,050  
EARLIER FILING DATE: 1997-05-09  
EARLIER APPLICATION NUMBER: US 08/911,312  
EARLIER FILING DATE: 1997-08-14  
EARLIER APPLICATION NUMBER: US 08/912,951  
EARLIER FILING DATE: 1997-08-14  
EARLIER APPLICATION NUMBER: US 08/915,503  
EARLIER FILING DATE: 1997-08-14  
EARLIER APPLICATION NUMBER: WO PCT/US97/17618  
EARLIER FILING DATE: 1997-10-01  
EARLIER APPLICATION NUMBER: WO PCT/US97/17885  
EARLIER FILING DATE: 1997-10-01  
EARLIER APPLICATION NUMBER: US 08/974,549  
EARLIER FILING DATE: 1997-11-19  
EARLIER APPLICATION NUMBER: US 08/974,584  
EARLIER FILING DATE: 1997-11-19  
EARLIER APPLICATION NUMBER: US 09/052,864  
EARLIER FILING DATE: 1998-03-31  
NUMBER OF SEQ ID NOS: 21  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 4015  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (56)..(3454)  
OTHER INFORMATION: human telomerase reverse transcriptase (hTERT) cDNA  
US-09-128-354-1  
Query Match 99.6%; Score 2837; DB 4; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 12 GCAGCGCTGCTCTCTGTCGACAGTGGGAAGCCCTGCGCCAGCCCGGATGCC 71  
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 OY 492 CCGCTGGGGGAGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 551  
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 OY 1992 CAGAACGTCGCGAGAGAAAGAGGCGAGCGCTGCTGCTGAGGGGTGAAGCACTGTT 2051  
 DB 1981 CAGAACGTCGCGAGAGAAAGAGGCGAGCGCTGCTGCTGAGGGGTGAAGCACTGTT 2040  
 OY 2052 CAGCTGCTCACTACGAGCGGGGCGCGCGCGCGCGCTGCTGCGGCTCTGCTGCTGGG 2111  
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Db 2821 GCCGGCCCGACGGCCTAT 2837

RESULT 7  
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; Sequence 1, Application US/09675321  
; Patent No. 6440735  
; GENERAL INFORMATION:  
; APPLICANT: Gaeta, Federico C.A.  
; TITLE OF INVENTION: Methods and Compositions for Eliciting an Immune  
; FILE REFERENCE: 015389-003500PC  
; CURRENT APPLICATION NUMBER: US/09/675,321  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/112,006  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06898  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 4015  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (56)..(3454)  
; OTHER INFORMATION: human telomerase reverse transcriptase (hTERT)  
US-09-675-321-1

Query Match 99.6% Score 2837, DB 4; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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FILED DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/912,951  
FILING DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/915,503  
FILING DATE: 14-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/974,549  
FILING DATE: 19-NOV-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/974,584  
FILING DATE: 19-NOV-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/17618  
FILING DATE: 01-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/17885  
FILING DATE: 01-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Parent, Annette S.  
REGISTRATION NUMBER: 42,058  
REFERENCE/DOCKET NUMBER: 015389-003600US  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4015 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
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NAME/KEY: CDS  
LOCATION: 56..3454  
OTHER INFORMATION:  
OTHER INFORMATION: Transcriptase (hmrT)  
US-09-052-919-1

Query Match 99.6%; Score 2837; DB 4; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
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 2581 CAGCCTGTCTAAGGAGATGAGAGAAAGAGTGTGGGGGATTCGGCGGAGCGGCT 2640

2652 GCTCTGCTGAGAGCTGAGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2711  
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RESULT 9  
 US-08-912-951-1  
 ; Sequence 1, Application US/08912951  
 ; Patent No. 6475789  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ceoh, Thomas R.  
 ; APPLICANT: Lingner, Joachim  
 ; APPLICANT: Nakamura, Toru  
 ; APPLICANT: Chapman, Karen B.  
 ; APPLICANT: Morin, Gregg B.  
 ; APPLICANT: Harley, Calvin  
 ; APPLICANT: Andrews, William H.  
 ; TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT: DIAGNOSTIC AND  
 ; NUMBER OF SEQUENCES: 335  
 ; THERAPEUTIC METHODS  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Townsend and Crew LLP  
 ; STREET: Two Embarcadero Center, 8th Floor  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: United States of America  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/912,951  
 ; FILING DATE: 14-AUG-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/854,050  
 ; FILING DATE: 09-MAY-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/851,843  
 ; FILING DATE: 06-MAY-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
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 ; FILING DATE: 25-APR-1997  
 ; CLASSIFICATION: 435  
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 ; FILING DATE: 18-APR-1997  
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 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/724,643  
 ; FILING DATE: 01-OCT-1996  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Apple, Randolph T.  
 ; REGISTRATION NUMBER: 36,429  
 ; REFERENCE/DOCKET NUMBER: 015389-002600US

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4015 base pairs  
TYPE: nucleic acid  
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TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 56..3454  
OTHER INFORMATION: /product= "hprt"  
OTHER INFORMATION: /note= "human telomerase reverse  
transcriptase (hprt) catalytic protein"  
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US-08-912-951-1

Query Match 99.6%; Score 2837; DB 4; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 252 ACGGCGCGCGCGCGCGCGCGCGCTTCGCGGAGTGTGCTGCTGGAAGAGTGTGCG 311  
DB 241 ACGGCGCGCGCGCGCGCGCGCGCTTCGCGGAGTGTGCTGCTGGAAGAGTGTGCG 300  
QY 312 CCGAGTCTCAGAGGCTGTGCGAGCGCGCGGCGGAGAGAGTGTGCTGCGCTTGC 371  
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DB 901 CACCTCTTTGAGAGGAGTGGCTCTGTGCGAGCGGCGACCTCCACCACTCCGTGGCGCCA 960  
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QY 1092 GCGCT 1151  
DB 1081 GCGCT 1140  
QY 1152 GACCATCT 1211  
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QY 1452 CGGCTTGTGCGGGCTGTGCTGTGCGCGCGGCTGTGCGCGCGCTGTGCGCGCTGTGCGCG 1511  
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QY 1992 CAGAAGCTTCCGACAGAAAGAGGGCCAGGCGTCCACCTGAGAGGTGAAGCACTGTT 2051
DB 1981 CAGAAGCTTCCGACAGAAAGAGGGCCAGGCGTCCACCTGAGAGGTGAAGCACTGTT 2040
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US-09-733-294A-3  
; Sequence 3, Application US/09733294A

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Patent No. 6492171
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Susan M. Preler
; APPLICANT: Edward V. Mancewicz
; TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION
; FILE REFERENCE: ISPN-0527
; CURRENT APPLICATION NUMBER: US/09/733,294A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 09/572,423
; PRIOR FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 108
; SEQ ID NO 3
; LENGTH: 4015
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (56)...(3454)
US-09-733-294A-3

Query Match 99.6%; Score 2837; DB 4; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Matches 2837; Conservative 0;

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Db	2281	TCGGATGCGGTGGGTCAGAAAGGGCGGCCCATGGGACGTCGCGAAAGGCGCTCAAGAGCA	2340
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Db 1021 CCCGGGTACGGCCGAGACCAAGCACTTCTCTACTCTCTCAGGCGACAAAGAGCACTGCG 1080  
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QY 2472 CAGTGGCTCTTTCACAGCTCTCTACGCTTATGTGCAACAGCCGCTGGCAGTCAAGGG 2531  
Db 2461 CAGTGGCTCTTTCACAGCTCTCTACGCTTATGTGCAACAGCCGCTGGCAGTCAAGGG 2520  
QY 2532 CAAGTCTCTACCTGCAAGTGCAGAGGAGATCCGCAAGGCTCAATCTCTTCCAGCTGCTG 2591  
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RESULT 12  
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; Sequence 173 Application US/08851843A  
; Patent No. 6093809  
; GENERAL INFORMATION:  
; APPLICANT: Cec'h, Thomas R.  
; APPLICANT: Lingner, Joachim  
; APPLICANT: Nakamura, Toru  
; APPLICANT: Chapman, Karen B.  
; APPLICANT: Morlin, Gregg B.  
; APPLICANT: Harley, Calvin  
; APPLICANT: Andrews, William H.  
; TITLE OF INVENTION: No. 6093809el Telomerase  
; NUMBER OF SEQUENCES: 225  
; CORRESPONDENCE ADDRESS:



ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: United States of America  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,843A  
FILING DATE: 06-May-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/844,419  
FILING DATE: 18-APR-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/724,643  
FILING DATE: 01-OCT-1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph T.  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 015389-00293005  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 173:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4029 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY:  
LOCATION: 1..4029 /note= "preliminary sequence for  
OTHER INFORMATION: human TR1 cDNA insert of  
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US-08-851-843A-173  
Query Match 93.8%; Score 2671.2; DB 3; Length 4029;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2777; Conservative 0; Mismatches 53; Indels 9; Gaps 8;

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Db	1434	TACGGCTTCGTGGGGGCGCTGCGCTGCGGGCTGGTGGCCCCAGAGCCTTGGGGCTCCAGG	1493
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Db	1494	CACAACGAGCGCGCTTCTCAGGAAACACAAAGAAATTCATCTCCCTGGGGAAGCATGCG	1553
QY	1570	AAGCTCTGCTGCACAGAGCTGACGTGGAAATGAGCGTGGGAGATGCGCTTGGCTGGCG	1629
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QY	1810	AGCAAGTTGCACAAAGCATTTGGAATCAGACAGCACTTGAAGAGGGTGCACCTCGGAGAGCTG	1869
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Db	2094	GGCGTGCAGATATCCAGAGGGCGCTGGCGCACTTCGTGCTGCTGTGCGGGGCCACAGAGC	2153
QY	2170	CCGCGCGCTGAGCGTACTTTTGTCAAGTGGATGTGACAGGGCGGTACAGACATCCCC	2229
Db	2154	CCGCGCGCTGAGCGTACTTTTGTCAAGTGGATGTGACAGGGCGGTACAGACATCCCC	2213
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QY	2350	CACGCTCTTACCTTGACAGAGCTCCAGCGCAATCGCAAGTTCGATGGCTCACCTGGAG	2409
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Db	2394	GAGACAGACCCCGCTGAGGAGATCCGCTGTATCGAGAGAGACTCTCCTCAATATGAGGCC	2453
QY	2470	AGCAGTGGCTCTTGACGCTTCTCTCAACGTTCAATGTCCACACAGCGCGTGGCATCAGG	2529

Db	2454	AGCAGTGGCCCTTCGACAGCTTCTCTCAAGCTTCAATGTCACCAAGCGGTGCATCAGG	2513
Qy	2530	GGCAAGTCTCAAGCTCCAGTGTCCGAGGGATCCCCGAGGGCTGCATCTCTCCAGCTGCTC	2589
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US-08-974-549A-292			
Sequence 292, Application US/08974549A			
Patent No. 6166178			
GENERAL INFORMATION:			
APPLICANT: Cech, Thomas R.			
APPLICANT: Lingner, Joachim			
APPLICANT: Nakamura, Toru			
APPLICANT: Chapman, Karen B.			
APPLICANT: Morin, Gregg B.			
APPLICANT: Harley, Calvin B.			
APPLICANT: Andrews, William H.			
TITLE OF INVENTION: Human Telomerase Catalytic Subunit			
NUMBER OF SEQUENCES: 727			
CORRESPONDENCE ADDRESSES:			
ADDRESSEE: Townsend and Townsend and Crew LLP			
STREET: Two Embarcadero Center, Eighth Floor			
CITY: San Francisco			
STATE: California			
COUNTRY: USA			
ZIP: 94111-3834			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/974,549A			
FILING DATE: 19-NOV-1997			
CLASSIFICATION: 536			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/724,643			
FILING DATE: 01-OCT-1996			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/844,419			
FILING DATE: 18-APR-1997			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/846,017			
FILING DATE: 25-APR-1997			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/851,843			
FILING DATE: 06-MAY-1997			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: US 08/854,050			
FILING DATE: 09-MAY-1997			
PRIOR APPLICATION DATA:			







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RESULT 15  
US-09-430-323-173  
Sequence 173, Application US/09430323  
Patent No. 6309867

## GENERAL INFORMATION:

APPLICANT: Cecch, Thomas R.  
Lingner, Joachim  
Nakamura, Toru  
Chapman, Karen B.  
Morin, Gregg B.  
Harley, Calvin  
Andrews, William H.  
TITLE OF INVENTION: No. 6309867el Telomerase

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NUMBER OF SEQUENCES: 225
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/430,323
FILING DATE: 29-Oct-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/854,050
FILING DATE: 09-MAY-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-00293005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 173:
SEQUENCE CHARACTERISTICS:
LENGTH: 4029 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
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OTHER INFORMATION: /note= "preliminary sequence for
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US-09-430-323-173
Query Match 93.8%; Score 2671.2; DB 4; Length 4029;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2777; Conservative 0; Mismatches 53; Indels 9; Gaps 8;
QY 12 GCAAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 71
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Job time : 160.853 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 7, 2003, 08:32:46 ; Search time 676.622 Seconds  
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Title: US-08-951-733-13

Perfect score: 2848  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1708419 seqs, 1275431651 residues 3416838  
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	2837	99.6	4015	US-09-990-080-1	Sequence 1, App1
3	2837	99.6	4015	US-09-843-676-224	Sequence 224, App
4	2837	99.6	4015	US-09-953-052-1	Sequence 1, App1
5	2837	99.6	4015	US-10-053-758-224	Sequence 224, App
6	2837	99.6	4015	US-10-208-243-1	Sequence 1, App1
7	2837	99.6	4015	US-10-054-295-224	Sequence 224, App
8	2837	99.6	4015	US-10-054-611-224	Sequence 224, App
9	2837	99.6	4015	US-10-105-963-1	Sequence 1, App1
10	2837	99.6	4015	US-10-044-692-1	Sequence 1, App1
11	2837	99.6	4015	US-10-044-539-1	Sequence 1, App1
12	2782	97.7	3396	US-09-749-728B-32	Sequence 32, App1
13	2780.6	97.6	3453	US-10-205-629-1	Sequence 1, App1
14	2780.6	97.6	13766	US-10-105-616-1	Sequence 1, App1
15	2768.6	97.2	8742	US-10-105-616-6	Sequence 6, App1
16	2671.2	93.8	4029	US-09-843-676-173	Sequence 173, App

17	2671.2	93.8	4029	11	US-09-438-486-173	Sequence 173, App
18	2671.2	93.8	4029	14	US-10-053-758-173	Sequence 173, App
19	2671.2	93.8	4029	14	US-10-054-295-173	Sequence 173, App
20	2671.2	93.8	4029	14	US-10-054-611-173	Sequence 173, App
21	2463	86.5	3855	14	US-10-044-692-4	Sequence 4, App1
22	2463	86.5	3855	14	US-10-044-539-4	Sequence 4, App1
23	1517.6	53.3	4200	14	US-10-044-692-6	Sequence 6, App1
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34	1193	41.9	1311	14	US-10-294-778-1	Sequence 1, App1
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39	772.6	27.1	2171	10	US-09-766-253-100	Sequence 100, App
40	772.6	27.1	2171	11	US-09-438-486-100	Sequence 100, App
41	772.6	27.1	2171	14	US-10-053-758-100	Sequence 100, App
42	772.6	27.1	2171	14	US-10-054-295-100	Sequence 100, App
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ALIGNMENTS

RESULT 1  
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; Sequence 3, Application US/09733294A  
; Patent No. US2002045588A1  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: William Gaarde  
; APPLICANT: Susan W. Freiler  
; APPLICANT: Edward V. Wanciewicz  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION  
; FILE REFERENCE: ISPH-0527  
; CURRENT APPLICATION NUMBER: US/09/733,294A  
; CURRENT FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: 09/572,423  
; PRIOR FILING DATE: 2000-05-16  
; NUMBER OF SEQ ID NOS: 108  
; SEQ ID NO 3  
; LENGTH: 4015  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (56)...(3454)  
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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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RESULT 3  
US-09-843-676-224  
; Sequence 224, Application US/09843676  
; Patent No. US20020164786A1  
; GENERAL INFORMATION:  
; APPLICANT: Cech, Thomas R.  
; Linsner, Joachim  
; Nakamura, Toru  
; Chapman, Karen B.  
; Morin, Gregg B.  
; Harley, Calvin  
; Andrews, William H.  
; TITLE OF INVENTION: No. US20020164786A1el Telomerase  
; NUMBER OF SEQUENCES: 225  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, 8th Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: United States of America  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/843,676  
; FILING DATE: 26-Apr-2001  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/854,050  
; FILING DATE: 09-MAY-1997









Db	1921	CTTATCCCCAAGCCTGACGGGGCTGCGGCCGATGTGAAACATGGACTACGCTGTGGAGC	1980
QY	1992	CAGAACCTTCCCGCAGAGAAAGAGGCCCGACCGTCTACCTCCAGAGGGTGAAGGCACGTGT	2051
Db	1981	CAGAACCTTCCCGCAGAGAAAGAGGGCCGAGCGTCTACCTCCAGAGGGTGAAGGCACGTGT	2040
QY	2052	CAGCGTGCCTAACACACGAGCGGGGGCGGGCGCCGGGCTCCTGGGGGCGCTGTGTCTGGG	2111
Db	2041	CAGGCTGCTCAACTACACGAGGGGGCGGGCGCCGGGCTCCTGGGGGCGCTGTGTCTGGG	2100
QY	2112	CCTGGACAGATATCCACAGAGGCGCTGGCGCACCTTGCTGCTGCTGTGGGGCCACGAGACC	2171
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QY	2172	GCCGCGTAGCTGACCTTGTGCAAGGTGGATGTACGGGGGCGGTACGACACATCCCCCA	2231
Db	2161	GCCGCGTAGCTGACCTTGTGCAAGGTGGATGTACGGGGGCGGTACGACACATCCCCCA	2220
QY	2232	GGACAGGCTCACGAGAGGTCACTGGCGACGATATGAAAACCCAGAGAACGTACTGCTGGCG	2291
Db	2221	GGACAGGCTCACGAGAGGTCACTGGCGACGATATGAAAACCCAGAACGTACTGCTGGCG	2280
QY	2292	TCGGTATGCCGTGGTCCAGAAAGGCCGCCATGGCGAGCTGCCGAAAGGCTTCAAGAGCCA	2351
Db	2281	TCGGTATGCCGTGGTCCAGAAAGGCCGCCCAATGGCGAGCTGCCGAAAGGCTTCAAGAGCCA	2340
QY	2352	CGTGCCTACCTTGACAGACCTCTCACGGCGTACATCGACAGTTCGATGGGCTCACCGACGA	2411
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QY	2412	GACCAGCCCGGTGAGGGATGCGCTGCTCATGAGCAGACGCTCTCCGTGAATGAGGCCAG	2471
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QY	2472	CAGTGGCCTCTTTCGACGCTCTTCTACGCTTATATGTGCACACAGCCGCTGGCATCAGAGG	2531
Db	2461	CAGTGGCCTCTTTCGACGCTCTTCTACGCTTATATGTGCACACAGCCGCTGGCATCAGAGG	2520
QY	2532	CAAGTCTCAGCTCCAGTGGCCAGGGGAAATCCGACAGGGCCAAATCCCTCTCCACAGCTGCTGTG	2591
Db	2521	CAAGTCTCAGCTCCAGTGGCCAGGGGAAATCCGACAGGGCCAAATCCCTCTCTCCACAGCTGCTGTG	2580
QY	2592	CAGCCTGTGCTAGGGCGACATGAGAACAAAGCTGTTTGGGGGAAATGCGGGGAGCGGGCT	2651
Db	2581	CAGCCTGTGCTAGGGCGACATGAGAACAAAGCTGTTTGGGGGAAATGCGGGGAGCGGGCT	2640
QY	2652	GCTCCTCGGTTTGGTGGATGATTTCTGTGTGTGTATACACCTACCTCACACCGGAAAC	2711
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QY	2712	CTTCCCTAGAGACCCCTGTGCGAGGTGTGCCGAAATATATGGCTGGGTGAACTTGGCGAA	2771
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US-10-053-758-224

; Sequence 224, Application US/10053758  
; Publication No. US20030032075A1

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; GENERAL INFORMATION:
; APPLICANT: Czech

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; Lingner, Joachim  
; Nakamura, Toru  
; Chapman, Karen B.

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1      Morin, Gregg B.
2      Harley, Calvin
3      Andrews, William H
4      TITLE OF INVENTION: No. US20030032075A1el Telomerase
5      NUMBER OF SEQUENCES: 225
6      CORRESPONDENCE ADDRESS:
7      ADDRESSEE: Townsend and Townsend and Crew LLP
8      STREET: Two Embarcadero Center, 8th Floor
9      CITY: San Francisco
10     STATE: California
11     COUNTRY: United States of America
12     ZIP: 94111
13
14     COMPUTER READABLE FORM:
15     MEDIUM TYPE: Floppy disk
16     COMPUTER: IBM PC compatible
17     OPERATING SYSTEM: PC-DOS/MS-DOS
18     SOFTWARE: PatentIn Release #1.0, Version #1.30
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20     CURRENT APPLICATION DATA:
21     APPLICATION NUMBER: US/10/053,758
22     FILING DATE: 18-Jan-2002
23     CLASSIFICATION: 536
24
25     PRIOR APPLICATION DATA:
26     APPLICATION NUMBER: US/08/854,050
27     FILING DATE: 09-MAY-1997
28     APPLICATION NUMBER: US 08/851,843
29     FILING DATE: 06-MAY-1997
30     APPLICATION NUMBER: US 08/846,017
31     FILING DATE: 25-APR-1997
32     APPLICATION NUMBER: US 08/844,419
33     FILING DATE: 18-APR-1997
34     APPLICATION NUMBER: US 08/724,643
35     FILING DATE: 01-OCT-1996
36
37     ATTORNEY/AGENT INFORMATION:
38     NAME: Apple, Randolph T.
39     REGISTRATION NUMBER: 36,429
40     REFERENCE/DOCKET NUMBER: 015389-002930US
41     TELECOMMUNICATION INFORMATION:
42     TELEPHONE: (415) 576-0200
43     TELEFAX: (415) 576-0300
44
45     INFORMATION FOR SEQ ID NO: 224:
46     SEQUENCE CHARACTERISTICS:
47     LENGTH: 4015 base pairs
48     TYPE: nucleic acid
49     STRANDEDNESS: single
50     TOPOLOGY: linear
51
52     MOLECULE TYPE: CDNA
53
54     FEATURE:
55     NAME/KEY: CDS
56     LOCATION: 56..3454
57     OTHER INFORMATION: /product="hTERT"
58     /note="human telomerase reverse
59     transcriptase (hTERT) catalytic protein
60     component"
61
62     SEQUENCE DESCRIPTION: SEQ ID NO: 224:
63     US-10-053-758-224
64
65     Query Match      99.6%; Score 2837; DB 14; Length 4015;
66     Best Local Similarity 100.0%; Pred. No. 0;
67     Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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69     Oy      12  GCAGCGCTGCGTCTGCTGCGCGAGCTGGGAAGCCCTGGCCCCCGGACACCCCGCGATGCC 71
70             |||
71     Db      1  GCACCGCGTGCCTCTGCTGCGCGACGTGGGAAGCCCTGGCCCCCGGACACCCCGCGATGCC 60
72             |||
73     Oy      72  GCGGCGTCCCGCGTGCAGGCGCGTGGCGCTCCCTGCTGCGCAAGCCACTACGGGAGTGTCT 131
74             |||
75     Db      61  GCGGCGTCCCGCGTGCAGGCGCGTGGCGCTCCCTGCTGCGCAAGCCACTACGGGAGTGTCT 120
76             |||
77     Oy      132  GCCCGCTGCGCACTTCTGTCGCGCGCGCTTGGGCGCCCGCAGGCGTGGCGGCTGTGTCAAGCGCG 191
78             |||
79     Db      121  GCGCGTGGCCACGTTCCGTCGCGCGCGCTGCGGCGCCCGCAGGCGTGGCGGCTGTGTCAAGCGCG 180
80             |||
81     Oy      192  GGACCGCGGCGCTTCCGCGCGCGTGTGTGTGCGCCCAAGTGCCTGTGTGTGTGTCGCTTGGGAGCG 251

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[illegible]

Db	1261	GTGCCCTACGGGGTGTCTCTCAAGAGCAGCTGCCCGCTGTGAGCTGCGGTCAACCCAGC	1320
QY	1332	AGCCGATGTCTGTGTCCCGGGGGAAGACCCAGAGCGCTGTGTGGCGGCCCCCGAGAGAGGA	1391
Db	1321	AGCGGATGTCTGTGTCCCGGGGGAAGACCCAGAGCGCTGTGTGGCGGCCCCCGAGAGAGGA	1380
QY	1392	CACAGACCCCGTGCCTGGGTGCAGCTGTCTCGCCAGCAGCAGCCCGTGGCAGGTGT	1451
Db	1381	CACAGACCCCGTGCCTGGGTGCAGCTGTCTCGCCAGCAGCAGCCCGTGGCAGGTGT	1440
QY	1452	CGGCTGTGTGGGGGCTGTGGCCCGGCGTGTGTCCCGAGCCGCTGTGGGCTCCAGGA	1511
Db	1441	CGGCTGTGTGGGGGCTGTGGCCCGGCGTGTGTCCCGAGCCGCTGTGGGCTCCAGGA	1500
QY	1512	CAAGGAACGCGCTCTCTCAGAGAACACCAAGATTATCTCCCTGGGGAGAGATGGCAA	1571
Db	1501	CAAGGAACGCGCGCTCTCTCAGAGAACACCAAGATTATCTCCCTGGGGAGAGATGGCAA	1560
QY	1572	GCTCTCGCTGAGAGCTGACGTGGAAGATGAGCGTGGGAGTGCCTTGGCTGCGAG	1631
Db	1561	GCTCTCGCTGAGAGCTGACGTGGAAGATGAGCGTGGGAGTGCCTTGGCTGCGAG	1620
QY	1632	GAGCCCAAGGGTGTGGCTGTCTTCCGGCCGAGACACCGTGTGGGTGAGAGATCTTGC	1691
Db	1621	GAGCCCAAGGGTGTGGCTGTCTTCCGGCCGAGACACCGTGTGGGTGAGAGATCTTGC	1680
QY	1692	CAAGTCTCTGACATGGCTGATGAGTGTGTACTGTGTGAGCTGTCTACAGCTCTTCTTTA	1751
Db	1681	CAAGTCTCTCTGACATGGCTGATGAGTGTGTACTGTGTGAGCTGTCTACAGCTCTTCTTTA	1740
QY	1752	TGTCAAGGAGACCAAGTTTCAAAAAGAACAGGCTTTTCTACCCGGAAGATGTCTGGAG	1811
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QY	1812	CAAGTGTGAAGCATTTGGAATCAACACAGCACTTTGAAGAGGTGCAGCTGGCGGAGCTGTCTC	1871
Db	1801	CAAGTGTGAAGCATTTGGAATCAACACAGCACTTTGAAGAGGTGCAGCTGGCGGAGCTGTCTC	1860
QY	1872	GGAAGCAGAGGTCAAGCAGCATCCGGGAAGCCAGGCGCCCGCTGTGTGAGCTCAACATCTCG	1931
Db	1861	GGAAGCAGAGGTCAAGCAGCATCCGGGAAGCCAGGCGCCCGCTGTGTGAGCTCAACATCTCG	1920
QY	1932	CTTCATCCCAAGCCTGACGGGGCTGGCGCGATTGTGAACATGAGACTACGTGTGGAGNC	1991
Db	1921	CTTCATCCCAAGCCTGACGGGGCTGGCGCGATTGTGAACATGAGACTACGTGTGGAGNC	1980
QY	1992	CAGAACTGTCCGCGAGAGAAAAGAGGGCGAGCGTCTACCTCGAGAGGTGAAGGCACTGTT	2051
Db	1981	CAGAACTGTCCGCGAGAGAAAAGAGGGCGAGCGTCTACCTCGAGAGGTGAAGGCACTGTT	2040
QY	2052	CAGGCTGTCAACTACGAGCGGGGCGGGCGCCGGCGCTCTCTGGGCGGCTGTGTGCTGGG	2111
Db	2041	CAGGCTGTCAACTACGAGCGGGGCGGGCGCCGGCGCTCTCTGGGCGGCTGTGTGCTGGG	2100
QY	2112	CCTGGAGCATTTCCACAGAGGCGCTGGCGACCTTGTGTGTGTGTGGGCGCCAGAGACC	2171
Db	2101	CCTGGAGCATTTCCACAGAGGCGCTGGCGACCTTGTGTGTGTGTGGGCGCCAGAGACC	2160
QY	2172	GCGCGCTGAGCTGTACTTTGTCAAGGTGTGATGTGACGGGGCGGTACGACACATCCCCA	2231
Db	2161	GCGCGCTGAGCTGTACTTTGTCAAGGTGTGATGTGACGGGGCGGTACGACACATCCCCA	2220
QY	2232	GGAGAGGCTCAGGAGGTCAATGGCCAGCATATCAAAACCCAGAAACATGATCTCGGTGG	2291
Db	2221	GGAGAGGCTCAGGAGGTCAATGGCCAGCATATCAAAACCCAGAAACATGATCTCGGTGG	2280
QY	2292	TGCGTATGCGCTGTGTCCAGAAAGCGCGCCATGTGGGACAGTCCGCAAGGCGCTCAAGAGCA	2351
Db	2281	TGCGTATGCGCTGTGTCCAGAAAGCGCGCCATGTGGGACAGTCCGCAAGGCGCTCAAGAGCA	2340
QY	2352	CGTCTCTACCTTGAAGACCTTCCAGCCGTACATGCAAGTTCGTGGCTCACTGTGAGGA	2411
Db	2341	CGTCTCTACCTTGAAGACCTTCCAGCCGTACATGCAAGTTCGTGGCTCACTGTGAGGA	2400

OY	2412	GACCAGCCCGGTGAGGGATGCGCGTGTGCATCGACACAGACTCTCTCCCTGAATGAGCCAG	2471
Db	2401	GACCAGCCCGGTGAGGGATGCGCGTGTGCATCGACACAGAGCTCTCTCCCTGAATGAGCCAG	2460
OY	2472	CAGTGGCCCTTTCACAGCTCTCTCAACGCTTCATGTGCACACACGCGGAGGCATCAGGG	2531
Db	2461	CAGTGGCCCTTTCACAGCTCTCTCAACGCTTCATGTGCACACACGCGCGCATCAGGG	2520
OY	2532	CAGTCTCAGTCCAGTGCACGAGGGATCCGCGAGGGCTCCATCCTCTTCACAGCTGTCTG	2591
Db	2521	CAGTCTCAGTCCAGTGCACGAGGGATCCGCGAGGGCTCCATCCTCTTCACAGCTGTCTG	2580
OY	2592	CAGCCTGGCTACAGGCGCATGAGGAACAACTTTGTGGGGGAAATGGGGCGGGACGGCT	2651
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OY	2652	GCTCCTGGTGTGGTGTGATATTTCTTGTGGTACACCTTCACCTCAACCCACGGGAAAC	2711
Db	2641	GCTCCTGGTGTGGTGTGATATTTCTTGTGGTACACCTTCACCTCAACCCACGGGAAAC	2700
OY	2712	CTTCTCTAGGACCTGTGTCCGAGGTGTCCCTGAATATGGCTGTGTGAATCTTCCGAA	2771
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Db	2761	GACAGTGTGAACCTTCCCTGTAGAAAGACGAGCCCTGGGTGGACAGGCTTTTGTTCAGAT	2820
OY	2832	GCGGCGCCACGGCCAT	2848
Db	2821	GCGGCGCCACGGCCAT	2837

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RESULT 6
US-10-208-243-1
: Sequence 1, Application US/10208243
: Publication No. US20030044394A1
: GENERAL INFORMATION:
: APPLICANT: Gaeta, Federico C.A.
: TITLE OF INVENTION: Methods and Compositions for Eliciting an Immune
: FILE REFERENCE: 015389-003500PC
: CURRENT APPLICATION NUMBER: US/10/208,243
: CURRENT FILING DATE: 2002-07-30
: PRIOR APPLICATION NUMBER: US/09/675,321
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: US 60/112,006
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: WO PCT/US99/06898
: PRIOR FILING DATE: 1999-03-30
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 1
:-- LENGTH: 4015
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (36)..(3454)
: OTHER INFORMATION: human telomerase reverse transcriptase (hTERT)
US-10-208-243-1

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Db	61	GGGGGCTCCCGCTCCGACGGCCGTGCGCTCCCTGCTGGCGAACCACTACCCGAGAGTCT	120
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QY 1812 CAAGTGTCAAAAGATTTGGAAATCAGACAGACTTTGAAGAGGGTCACTGCGGAGCTGTC 1871

Db 1801 CAAGTGTCAAAAGATTTGGAAATCAGACAGACTTTGAAGAGGGTCACTGCGGAGCTGTC 1860

QY 1872 GGAAGAGAGAGTCAAGGAGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1931

Db 1861 GGAAGAGAGAGTCAAGGAGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1920

QY 1932 CTTCATCCCCAAGCCTGACGGGCTGCGGCGATTTGAAATGAACTAGCTGTGGAGC 1991

Db 1921 CTTCATCCCCAAGCCTGACGGGCTGCGGCGATTTGAAATGAACTAGCTGTGGAGC 1980

QY 1992 CAGAAGCTTCCGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2051

Db 1981 CAGAAGCTTCCGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2040

QY 2052 CAGCGTGTCAACTAG 2111

Db 2041 CAGCGTGTCAACTAG 2100

QY 2112 CCTGAGAGATTCACAG 2171

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QY 2172 GCGCGCTGAGCTGTACTTTGTCAAGGTGATGAGAGAGAGAGAGAGAGAGAGAGAG 2231

Db 2161 GCGCGCTGAGCTGTACTTTGTCAAGGTGATGAGAGAGAGAGAGAGAGAGAGAGAG 2220

QY 2232 GGACAGGCTCAG 2291

Db 2221 GGACAGGCTCAG 2280

QY 2292 TCGGTATGCCGTGCTCAG 2351

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Db 2521 CAGTGGCTCTTTCAG 2580

QY 2592 CAGCTGTGCTACAG 2651

Db 2581 CAGCTGTGCTACAG 2640

QY 2652 GCTCCTGCGTTTGGTGAATGATTTCTGTTGGTGAACCTCACCTCACCTCACCTCA 2711

Db 2641 GCTCCTGCGTTTGGTGAATGATTTCTGTTGGTGAACCTCACCTCACCTCACCTCA 2700

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Db 2761 GACAGGTGTGAATTCCTGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2820

QY 2832 GCCGGCCCAAGGCTTAT 2848

Db 2821 GCCGGCCCAAGGCTTAT 2837

RESULT 7

US-10-054-295-224

Sequence 224, Application US/10054295

Publication No. US20030044953A1

GENERAL INFORMATION:

APPLICANT: Cech, Thomas R.

Lingner, Joachim

Nakamura, Toru

Chapman, Karen B.

Morlin, Gregg B.

Harley, Calvin

Andrews, William H.

TITLE OF INVENTION: No. US20030044953A1el Telomerase

NUMBER OF SEQUENCES: 225

CORRESPONDENCE ADDRESS:

ADDRESSER: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor

CITY: San Francisco

STATE: California

COUNTRY: United States of America

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/054,295

FILING DATE: 18-Jan-2002

CLASSIFICATION: 536

PRIOR APPLICATION DATA:



Db 1621 GAGCCAGGGGTTGGCTGTGTTCCGGCCGAGACACCGCTTCGCTGAGAGATCTCGGC 1680  
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QY 1872 GGAAGCAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1931  
Db 1861 GGAAGCAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1920  
QY 1932 CTTTCATCCCAAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1991  
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Db 2041 CAGCGTCTCAACTAGACAGCGGAGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2100  
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QY 2412 GACACAGGCTCAGCGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 2471  
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QY 2472 CAGTGGCTCTTCTGACAGCTTCTGATGATGATGATGATGATGATGATGATGATGAT 2531  
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RESULT 8

US-10-054-611-224  
; Sequence 224, Application US/10054611  
; Publication No. US20030059787A1  
; GENERAL INFORMATION:  
APPLICANT: Cech, Thomas R.  
; Lingner, Joachim  
; Nakamura, Toru  
; Chapman, Karen B.  
; Morin, Gregg B.  
; Harley, Calvin  
; Andrews, William H.  
TITLE OF INVENTION: No. US20030059787A1el Telomerase  
NUMBER OF SEQUENCES: 225  
CORRESPONDENCE ADDRESS:  
ADDRESS: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: United States of America  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/054,611  
FILING DATE: 18-Jan-2002  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/854,050  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 08/846,017  
FILING DATE: 25-Apr-1997  
APPLICATION NUMBER: US 08/844,419  
FILING DATE: 18-Apr-1997  
APPLICATION NUMBER: US 08/724,643  
FILING DATE: 01-Oct-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Apple, Randolph T.  
REGISTRATION NUMBER: 36,429  
REFERENCE/DOCKET NUMBER: 015389-002930US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 224:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4015 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: Linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 56..3454  
OTHER INFORMATION: /product= "hTrr"  
/note= "human telomerase reverse  
transcriptase (hTrr) catalytic protein  
component"  
SEQUENCE DESCRIPTION: SEQ ID NO: 224:  
US-10-054-611-224

[illegible]

Db	1021	CCGGGTGACCGCGAGACCAAGCACTTCTCTACTCTCCAGCGCAAGAGGAGCACTGCG	1080
QY	1092	GCCCTCTCTCTACTACTAGCTCTCTGAGGCCACAGCTGACTGGCGCTGGAGGCTGTGGA	1151
Db	1081	GCCCCCTCTCTACTACACTCTCTGAGGCCACAGCTGACTGGCGCTGGAGGCTGTGGA	1140
QY	1152	GACCATCTTCTGGGGTTCCAGGCCCTGGATGTCAGAGGGGCTCCCGCGAGGTTGCCCGGCT	1211
Db	1141	GACCATCTTCTGGGGTTCCAGGCCCTGGATGTCAGAGGGGCTCCCGCGAGGTTGCCCGGCT	1200
QY	1212	GCCCCAGGCTACTGGCAAAATGCGGCCCTGTTCTGGAGCTGCTGGGAAACAAGCGCA	1271
Db	1201	GCCCCAGGCTACTGGCAAAATGCGGCCCTGTTCTGGAGCTGCTGGGAAACAAGCGCA	1260
QY	1272	GTGCCCTTACGGGGGTGCTCTCAAGAGCAATGCCCCGTGGAGCTGCGGTCACCCCAGC	1331
Db	1261	GTGCCCTTACGGGGGTGCTCTCAAGAGCAATGCCCCGTGGAGCTGCGGTCACCCCAGC	1320
QY	1332	AGCCGCTTCTGTGCGCCGGGAGAAAGCCCAAGGGCTCTGTGGCGGCCGCCCGAGAGAGGA	1391
Db	1321	AGCCGCTTCTGTGCGCCGGGAGAAAGCCCAAGGGCTCTGTGGCGGCCGCCCGAGAGAGGA	1380
QY	1392	CACAGACCCCGCTGCGCTGTGTGACGCTCTCCAGACAGACAGACCCCTGTGACAGTGT	1451
Db	1381	CACAGACCCCGCTGCGCTGTGTGACGCTCTCCAGACAGACAGACCCCTGTGACAGTGT	1440
QY	1452	CGGCTTCTGTGGGGGCGTGGCCCGCGGCTGTGGTGGTCCCCCAGGCTCTGAGGCTCAGGCA	1511
Db	1441	CGGCTTCTGTGGGGGCGTGGCCCGCGGCTGTGGTGGTCCCCCAGGCTCTGAGGCTCAGGCA	1500
QY	1512	CAAGCAAGCGCGTCTCTCAGAGAACACCAAMAATTATCTCCCTGGGGAGAGCATGCGCA	1571
Db	1501	CAAGCAAGCGCGTCTCTCAGAGAACACCAAMAATTATCTCCCTGGGGAGAGCATGCGCA	1560
QY	1572	GCTCTCGCTGACAGAGCTGACGTGGAAGATGAGCGTGGCGGAGCTGCGCTTGGCTGCGAG	1631
Db	1561	GCTCTCGCTGACAGAGCTGACGTGGAAGATGAGCGTGGCGGAGCTGCGCTTGGCTGCGAG	1620
QY	1632	GAGCCACAGGGGTTGGCTGTGTCCGGCCGAGACACCCGTGGGTGAGAGAGATCTGTGC	1691
Db	1621	GAGCCACAGGGGTTGGCTGTGTCCGGCCGAGACACCCGTGGGTGAGAGAGATCTGTGC	1680
QY	1692	CAAGTCTCTGACATGCGCTGATGATGTGTAGCTGTGAGAGCTGTCTAGCTCTTCTTTA	1751
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QY	1752	TGTCAAGGAGACCAAGTTTCAAAAAGACAGGCTCTTTTTCACCGGAAGAGTGTCTGGAG	1811
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QY	1812	CAAGTTGGAAGCAATTGGAAATCAACAGCAACTTAAAGAGGTGAGCTGGCGGAGCTGTCTC	1871
Db	1801	CAAGTTGGAAGCAATTGGAAATCAACAGCAACTTAAAGAGGTGAGCTGGCGGAGCTGTCTC	1860
QY	1872	GGAAGCAGAGGTACAGGCGATGCGGGAAGCCAGGCCCGCCCTGTGTGACGTCCAAACTCCG	1931
Db	1861	GGAAGCAGAGGTACAGGCGATGCGGGAAGCCAGGCCCGCCCTGTGTGACGTCCAAACTCCG	1920
QY	1932	CTTCATCCCAAGCCTGACGGGGCTGTGGCGCGATTGTGAACAATGAGCACTGCTGGAGGC	1991
Db	1921	CTTCATCCCAAGCCTGACGGGGCTGTGGCGCGATTGTGAACAATGAGCACTGCTGGAGGC	1980
QY	1992	CAGAAACGTTCCCGCAGAGAAAAAGAGGGCCGACCGCTCTACCTCTGAGGGGTGAAGGCACTGTT	2051
Db	1981	CAGAAACGTTCCCGCAGAGAAAAAGAGGGCCGACCGCTCTACCTCTGAGGGGTGAAGGCACTGTT	2040
QY	2052	CAGCGTGTCAACTACGAGCGGGGGCGCGCGCGCTCTCTGGGGCGCTGTGTGCGGGG	2111
Db	2041	CAGCGTGTCAACTACGAGCGGGGGCGCGCGCGCTCTCTGGGGCGCTGTGTGCGGGG	2100
QY	2112	CTGTGACATATTCACAGAGGCGCTGGCGACCTTGTGTGCTGTGTGGCGCCAGAGACCC	2171

D	b		2101	CCTGGACGATATCCACAAGGCCCTTGGCGCACTTGCTGTGCTGTGTGGCGGCCAGAACCC	2160
O	y		2172	GCCGCCTGAGCTGTACTTTGTGAAGGTGATGTGACGGGCGCTGACGACCATTCCCCA	2231
D	b		2161	GCCGCTGAGCTGTACTTTGTCAAGGTGATGTGACGGGCGCTGACGACCATTCCCCA	2220
O	y		2232	GGACAGCCTCACGAGGTCATGCGCAGCATCATCAAAACCCAGAACACGTACTGCTGCG	2291
D	b		2221	GGACAGCCTCACGAGGTCATGCGCAGCATCATCAAAACCCAGAACACGTACTGCTGCG	2280
O	y		2292	TCCGTATGCGGTGGTCCAGAAAGGCCGCCAATGGGAGAGCTCCGMAAGGCTTCAGAGCCA	2351
D	b		2281	TCCGTATGCGGTGGTCCAGAAAGGCCGCCAATGGGAGAGCTCCGMAAGGCTTCAGAGCCA	2340
O	y		2352	CGTCTTACCTTGAACAGACCTCCAGCCGTACATGAGAGTTCGNGGGCTCACTCAGAGA	2411
D	b		2341	CGTCTTACCTTGAACAGACCTCCAGCCGTACATGAGAGTTCGNGGGCTCACTCAGAGA	2400
O	y		2412	GACCAAGCCCGCTGAGGAGTGGCCGTGTCATGAGACAGAGCTTCCTCCGTAATGAGGCAG	2471
D	b		2401	GACCAAGCCCGCTGAGGAGTGGCCGTGTCATGAGACAGAGCTTCCTCCGTAATGAGGCAG	2460
O	y		2472	CAGTGGGCTCTTGACAGCTCTCCATACGCTTATGTGCGCACAGCCGCTGGCCATAGAGGG	2531
D	b		2461	CAGTGGGCTCTTGACAGCTCTCCATACGCTTATGTGCGCACAGCCGCTGGCCATAGAGGG	2520
O	y		2532	CAAGTCTTACCTTGAAGTCCAGAGGATCCGACAGGCTCCATCCCTCCAGGCTGCTCG	2591
D	b		2521	CAAGTCTTACCTTGAAGTCCAGAGGATCCGACAGGCTCCATCCCTCCAGGCTGCTCG	2580
O	y		2592	CAGCCTTGCTACAGGCGCATGAGAACAGCTGTTTTGCGGGGATTTGCGCGGAGCGGCT	2651
D	b		2581	CAGCCTTGCTACAGGCGCATGAGAACAGCTGTTTTGCGGGGATTTGCGCGGAGCGGCT	2640
O	y		2652	GCTCTCGGTGTTGGTGGATGATTTCTGTGGTAGACACTCCTACCCACCGCAAAAC	2711
D	b		2641	GCTCTCGGTGTTGGTGGATGATTTCTGTGGTAGACACTCCTACCCACCGCAAAAC	2700
O	y		2712	CTTCTCTAGAGACCCCTGTCGAGGTGTCTCTGAGATGAGTGGCGGTGGAATCTCGGAA	2771
D	b		2701	CTTCTCTAGAGACCCCTGTCGAGGTGTCTCTGAGATGAGTGGCGGTGGAATCTCGGAA	2760
O	y		2772	GACAGTGGTGAACCTTCCCTGTGAAAGACGAGGCCCTGGGTGGACAGGCTTTTGTTCAGAT	2831
D	b		2761	GACAGTGGTGAACCTTCCCTGTGAAAGACGAGGCCCTGGGTGGACAGGCTTTTGTTCAGAT	2820
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D	b		2821	GCCGGCCACAGGCCCTAT	2837
 RESULT 9 US-10-105-963-1					
? Sequence 1, Application US/10105963					
? Publication No. US20030068818A1					
? GENERAL INFORMATION:					
? APPLICANT: Geron Corporation					
? APPLICANT: Denning, Chris					
? APPLICANT: Clark, A. John					
? TITLE OF INVENTION: Animal Tissue with Carbohydrate Antigens Compatible for Human					
? TITLE OF INVENTION: Transplantation and a Carbohydrate Determinant Selection System					
? FILE REFERENCE: 731/002					
? CURRENT APPLICATION NUMBER: US/10/105,963					
? PRIOR FILING DATE: 2002-03-21					
? PRIOR FILING DATE: 2001-03-21					
? SOFTWARE: PatentIn version 3.1					
? SEQ ID NO 1					
? LENGTH: 4015					
? TYPE: DNA					

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (56)..(3454)
; OTHER INFORMATION:
US-10-105-963-1

Query Match      99.6%; Score 2837; DB 14; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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OY      72  GCGGCGTCCCGCGCTGCGGAGCGCGTGGCTCCCTGTGTGGCGAAGCCACTACCGGAGTGTCT 131
Db       61  GCGGCGTCCCGCGCTGCGGAGCGCGTGGCTCCCTGTGTGGCGAAGCCACTACCGGAGTGTCT 120

OY     132  GCCCGTGGCCAGTTCGTGTCGCGCGCCCTTGCGGCGCCAGGAGCTGAGCGTGTGCAACGCGG 191
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OY     432  CCTGCGCCAAACGGGTGAGCGAGACGCAACGCTGCGGGGAGCGGGGGGCTGCGCTGCTGCG 491
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OY     492  CCGCGTGGGCGACGACGAGTGTCTGTTCACCTCTGTGCAACGCTGTGCGCGCGCTCTTGTGCTGT 551
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OY     552  GCGTCTCCAGCTGCGCTTACCAAGGTGTGCGGGCGCGCGCTGTACAGCTTCGGCGCTGCCAC 611
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OY     612  TCAGGCGCGGCGCCCGCGCCACAAGCTAGTGGAAACCCGGAAGGGGCTGGGATGGAACGGGC 671
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Db	1321	AGCCGGTGTGTGTGCGCGGAGAAAGCCCAAGGGCTGTGGCGGGCCCCGAGAGAGAGGA	1380
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Db	2161	GCCGCTGAGCTGTACTTTGTCAAGAGTGGATGTACGAGGGCGCTGACAGCAACATCCCCCA	2220
QY	2232	GGACAGGCTCACGAGAGTCAATGCCAGCATATCAAAACCCAGAACAGTACTGCTGGCG	2291
Db	2221	GGACAGGCTCACGAGAGTCAATGCCAGCATATCAAAACCCAGAACAGTACTGCTGGCG	2280
QY	2292	TGCGTTATGCGGTGTTCCAGAAAGCGCGGCGCAATGGGCACTGCGCAAGGCGCTTCAAGAGCA	2351
Db	2281	TGCGTTATGCGGTGTTCCAGAAAGCGCGGCGCAATGGGCACTGCGCAAGGCGCTTCAAGAGCA	2340
QY	2352	CGTCTTACCTTTGAACAGACCTCCAGCCGTACATCGACAGTTCGTGGCTCACTCGCAGGA	2411
Db	2341	CGTCTTACCTTTGAACAGACCTCCAGCCGTACATCGACAGTTCGTGGCTCACTCGCAGGA	2400
QY	2412	GACCAAGCCCGTGAAGGATGCGCTGTGTCATGAGCAGAGCTCTCCCTGAATGAGGCCAG	2471

Db	2401	GACACGCCCGCTGAGGGATCCGTCGNCATCGAGCAGAGACTCTCTCTGAAATGAGGCCAG	2460
Qy	2472	CAGTGGCCCTTGTGAGCCTCTTCTCAGCTTCAATGTCACACACGCCGTGCGATCAGGGG	2531
Db	2461	CAGTGGCCCTTGTGAGCCTCTTCTCAGCTTCAATGTCACACACGCCGTGCGATCAGGGG	2520
Qy	2532	CAAGTCTTACGTCCAGTGGCCAGGAGATCCCGCAGGGGCTCCATCTCTCCACAGGTGCTCG	2591
Db	2521	CAAGTCTTACGTCCAGTGGCCAGGAGATCCCGCAGGGGCTCCATCTCTCCACAGGTGCTCG	2580
Qy	2592	CAGCCTGTGCTACGGCGACATGAGAAACAAGCTGTTCGGGGGATTCGGCGGGAGCGCT	2651
Db	2581	CAGCCTGTGCTACGGCGACATGAGAAACAAGCTGTTCGGGGGATTCGGCGGGAGCGCT	2640
Qy	2652	GCTCCCTCGTTTGGTGGATGATTTCTGTTGGTGAGACCTCAACCTCAACCAGCGGAAC	2711
Db	2641	GCTCCCTCGTTTGGTGGATGATTTCTGTTGGTGAGACCTCAACCTCAACCAGCGGAAC	2700
Qy	2712	CTTCTCCAGGACCCCTGTGTCGAGAGTGTCCCTGAGTATGAGTGCGTGTGAATTCGGGAA	2771
Db	2701	CTTCTCCAGGACCCCTGTGTCGAGAGTGTCCCTGAGTATGAGTGCGTGTGAATTCGGGAA	2760
Qy	2772	GACAGGTGTAACCTTCCCTGTAAAGACAGAGGCCCTGGGTGGACGGCTTTGTTCAGT	2831
Db	2761	GACAGGTGTAACCTTCCCTGTAAAGACAGAGGCCCTGGGTGGACGGCTTTGTTCAGT	2820
Qy	2832	GCGGGCCACGCGCTAT 2848	
Db	2821	GCGGGCCACGCGCTAT 2837	
RESULT 11			
US-10-044-539-1			
: Sequence 1, Application US/10044539			
: Publication No. US2003010093A1			
GENERAL INFORMATION:			
APPLICANT: Cech, Thomas R.			
Lingner, Joachim			
Nakamura, Toru			
Chapman, Karen B.			
Morin, Gregg B.			
Harley, Calvin			
Andrews, William H.			
TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT: DIAGNOSTIC AND			
THERAPEUTIC METHODS			
NUMBER OF SEQUENCES: 335			
CORRESPONDENCE ADDRESSES:			
ADDRESSEE: Townsend and Townsend and Crew LLP			
STREET: Two Embarcadero Center, 8th Floor			
City: San Francisco			
STATE: California			
COUNTRY: United States of America			
ZIP: 94111			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: Patentin Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/10/044,539			
FILING DATE: 11-Jan-2002			
CLASSIFICATION: 435			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: 08/912,951			
FILING DATE: <Unknown>			
APPLICATION NUMBER: US 08/854,050			
FILING DATE: 09-MAY-1997			
APPLICATION NUMBER: US 08/851,843			
FILING DATE: 06-MAY-1997			
APPLICATION NUMBER: US 08/846,017			
FILING DATE: 25-APR-1997			
APPLICATION NUMBER: US 08/844,419			
FILING DATE: 18-APR-1997			



1752 TGTACGAGAGACACGTTTCAAAGAACAGGCTCTTTTCTACCCGGAAGATGTCTGGAG 1811  
1741 TGTACGAGAGACACGTTTCAAAGAACAGGCTCTTTTCTACCCGGAAGATGTCTGGAG 1800  
1812 CAAGTTCGAAGACATTTGGAATCAGACAGCACTTGAAGAGGGTGGAGCTGGGGAGCTGTG 1871  
1801 CAAGTTCGAAGACATTTGGAATCAGACAGCACTTGAAGAGGGTGGAGCTGGGGAGCTGTG 1860  
1872 GGAAGCAGAGGTGACGAGCATTCGGAAGAGCCAGGCCGCCCTGCTGACGTCAGACTCCG 1931  
1861 GGAAGCAGAGGTGACGAGCATTCGGAAGAGCCAGGCCGCCCTGCTGACGTCAGACTCCG 1920  
1932 CTTATATCCCAAGCCTGACGGGCTGGCGGCACTTGTGAACATGGAATCTGCTGGAGC 1991  
1921 CTTATATCCCAAGCCTGACGGGCTGGCGGCACTTGTGAACATGGAATCTGCTGGAGC 1980  
1992 CAGAAGCTTCCGACAGAGAAAGAGGGCCGAGCGTCTGACCTCGAGGGGTGAAGGACATGTT 2051  
1881 CAGAAGCTTCCGACAGAGAAAGAGGGCCGAGCGTCTGACCTCGAGGGGTGAAGGACATGTT 2040  
2052 CAGCGTCTCAACTACGAGCGGGGCGCGGCCGCCGCCCTCTGGGCGGCTGTGCTGGG 2111  
2041 CAGCGTCTCAACTACGAGCGGGGCGCGGCCGCCGCCCTCTGGGCGGCTGTGCTGGG 2100  
2112 CCGTGAAGATATCCACAGAGGCGCTGGCGGCACTTGTGCTGTGCTGTGCGGCGGCGG 2171  
2101 CCGTGAAGATATCCACAGAGGCGCTGGCGGCACTTGTGCTGTGCTGTGCGGCGGCGG 2160  
2172 GCCGCTGAGCTGACTTTGTCAAGGTGATGTGACGGGCGGCTGACGACACATCCCA 2231  
2161 GCCGCTGAGCTGACTTTGTCAAGGTGATGTGACGGGCGGCTGACGACACATCCCA 2220  
2232 GGACAGGCTCAGGAGGTGATGCGCAGCATCATCAAAACCCAGAACAGTACTGCTGGC 2291  
2221 GGACAGGCTCAGGAGGTGATGCGCAGCATCATCAAAACCCAGAACAGTACTGCTGGC 2280  
2292 TCGGTATGCGGTGTCAGAGAGGCGGCCATGGGACAGTCCGCAAGGCGCTCAAGAGCA 2351  
2281 TCGGTATGCGGTGTCAGAGAGGCGGCCATGGGACAGTCCGCAAGGCGCTCAAGAGCA 2340  
2352 CGTCTTACCTTGAAGACAGCTCCAGCCGTACATGAGACAGTTCGTGGCTCACTGACGA 2411  
2341 CGTCTTACCTTGAAGACAGCTCCAGCCGTACATGAGACAGTTCGTGGCTCACTGACGA 2400  
2412 GACAGGCGCGTGAAGAGATGCGCTGTGATGAGCAGAGCTCTCCCTGAATGAGGCCAG 2471  
2401 GACAGGCGCGTGAAGAGATGCGCTGTGATGAGCAGAGCTCTCCCTGAATGAGGCCAG 2460  
2472 CAGTGGCTCTGTCAGAGCTCTTCCATGAGCTTCATGTCACACAGCCCGTGGCATCAGAGG 2531  
2461 CAGTGGCTCTTTCAGAGCTCTTCCATGAGCTTCATGTCACACAGCCCGTGGCATCAGAGG 2520  
2532 CAAGTCTTACGTCAGTGCAGAGGAGATCCGCAAGGCTCCATCTCTTCCAGAGCTGTG 2591  
2521 CAAGTCTTACGTCAGTGCAGAGGAGATCCGCAAGGCTCCATCTCTTCCAGAGCTGTG 2580  
2592 CAGCTGTGTACGCGGACATGAGAAACAAGCTTTTGGGGGATTCGGCGGAGCGGGCT 2651  
2581 CAGCTGTGTACGCGGACATGAGAAACAAGCTTTTGGGGGATTCGGCGGAGCGGGCT 2640  
2652 GCTGCTGCTGTTGGTGAATGATTTCTGTTGGTGTGACACCTTCACCTCACCACGGAAC 2711  
2641 GCTGCTGCTGTTGGTGAATGATTTCTGTTGGTGTGACACCTTCACCTCACCACGGAAC 2700  
2712 CTTCTCAGAGACCTTGTGCGAGGTGTCTCTGAGTATGGCTGTGTGAACCTTGGGAA 2771  
2701 CTTCTCAGAGACCTTGTGCGAGGTGTCTCTGAGTATGGCTGTGTGAACCTTGGGAA 2760  
2772 GACAGTGTGAACCTTCCCTGTGAAGACAGAGGCGCTGGGTGCAAGGCGCTTTGTTCAGAT 2831  
2761 GACAGTGTGAACCTTCCCTGTGAAGACAGAGGCGCTGGGTGCAAGGCGCTTTGTTCAGAT 2820  
2832 GCCGGCCACGCGCTAT 2848

Db 2821 GCCGGCCACGCGCTAT 2837  
RESULT 12  
US-09-749-728B-32  
; Sequence 32, Application US/09749728B  
; Patent No. US20020142457A1  
; GENERAL INFORMATION:  
; APPLICANT: Umezawa, Akihito  
; APPLICANT: Hata, Jun-ichi  
; APPLICANT: Fukuda, Keiichi  
; APPLICANT: Ogawa, Satoshi  
; APPLICANT: Sakurada, Kazuhito  
; APPLICANT: Gojo, Satoshi  
; APPLICANT: Yamada, Yoji  
; TITLE OF INVENTION: THE CELL HAVING THE POTENTIALITY OF DIFFERENTIATION INTO CARDI  
; FILE REFERENCE: 00766, 000043  
; CURRENT APPLICATION NUMBER: US/09/749,728B  
; PRIOR FILING DATE: 2001-09-17  
; PRIOR APPLICATION NUMBER: H11-372826  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: PCT-JP00-01148  
; PRIOR FILING DATE: 2000-02-28  
; PRIOR APPLICATION NUMBER: PCT-JP00-07741  
; PRIOR FILING DATE: 2000-11-02  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: Patentln Ver.2.0  
; SEQ ID NO 32  
; LENGTH: 3396  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; OTHER INFORMATION: (1)...(3399)  
US-09-749-728B-32  
Query Match 97.7%; Score 2782; DB 10; Length 3396;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
67 ATGCGGCGGCTCCCGCTGCGGAGCGGTGGGCTCCCTGTCGCGCAGCACTACCGGAG 126  
1 ATGCGGCGGCTCCCGCTGCGGAGCGGTGGGCTCCCTGTCGCGCAGCACTACCGGAG 60  
127 GTGCTGCGCGTGGCGACGTTGCTGCGGCGCTGGAGGCCCGAGGCTGGCGGCTGGGAG 186  
61 GTGCTGCGCGTGGCGACGTTGCTGCGGCGCTGGAGGCCCGAGGCTGGCGGCTGGGAG 120  
187 GCGGGGACCGCGGCGCTTTCGCGCGCTGGTGGGCCAGTGCCTGGTGGCTGGCTGGG 246  
121 GCGGGGACCGCGGCGCTTTCGCGCGCTGGTGGGCCAGTGCCTGGTGGCTGGCTGGG 180  
247 GAGCGAGCG 306  
181 GAGCGAGCG 240  
307 GTGCGCGGAGTGTGACAGAGGCTGTGCGAGGCGCGCGCGGAGAAAGACGTCGCTGGG 366  
241 GTGCGCGGAGTGTGACAGAGGCTGTGCGAGGCGCGCGCGGAGAAAGACGTCGCTGGG 300  
367 TTGCGGCTGCTGACAGGAGGCCCGCGGAGGCCCGCGGAGGCTTTCACACAGCGTGGC 426  
301 TTGCGGCTGCTGACAGGAGGCCCGCGGAGGCCCGCGGAGGCTTTCACACAGCGTGGC 360  
427 AGCTACCTGCGCAACAGGTGACAGAGCACTGTGGGGGAGAGCGGGGCTGGGCTGTG 486  
361 AGCTACCTGCGCAACAGGTGACAGAGCACTGTGGGGGAGAGCGGGGCTGGGCTGTG 420  
487 CTGCGCGCGGCGGCGAGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546  
421 CTGCGCGCGGCGGCGAGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480



Db	2641	AAACCTTCCAGAGACCCTGGTCCAGAGTGTCCCTAGATGTGGCTGCTGGTAACTTG	2700
Q7	2767	CGGAAGACACAGTGGTGAACCTTCCCTGTGTAAGAACAGAGCCCTGGGTGCAACGGCTTTTGT	2826
Db	2701	CGGAGACAGTGGTGAACCTTCCCTGTGTAAGAACAGAGCCCTGGGTGCAACGGCTTTTGT	2760
Q7	2827	CAGATGCCGGCCACAGGCTTAT	2848
Db	2761	CAGATGCCGGCCACAGGCTTAT	2782

RESULT 13  
US-10-205-629-1

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1  Sequence 1, Application US/10205629
2  Publication No. US20030049236A1
3  GENERAL INFORMATION:
4  APPLICANT: Kassem, Moustapha
5  APPLICANT: Jensen, Thomas
6  APPLICANT: Ratten, Suresh
7  TITLE OF INVENTION: Immortalized Stem Cells
8  FILE REFERENCE: 006148.00002
9  CURRENT APPLICATION NUMBER: US/10/205,629
10 CURRENT FILING DATE: 2002-07-26
11 PRIOR APPLICATION NUMBER: 60/315939
12 PRIOR FILING DATE: 2001-08-29
13 PRIOR APPLICATION NUMBER: PA 2001 01148
14 PRIOR FILING DATE: 2001-07-27
15 NUMBER OF SEQ ID NOS: 1
16 SOFTWARE: FastSeq for Windows Version 4.0
17 SEQ ID NO 1
18 LENGTH: 3453
19 TYPE: DNA
20 ORGANISM: Homo sapiens
21 US-10-205-629-1

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Query Match	97.68	Score 2780.6	DB 14	Length 3453
Best Local Similarity	99.98	Pred. No. 0		
Matches 2783; Conservative	0	Mismatches	4	Indels 0
				Gaps 0

QY	62	CCGGGATGCCGGGCTCCCGGCGGAGCGTCCCTCCGTGTGGGCAACCACTAC	121
Db	5	CCACCATTGCCCGGAGCTCCCGCTGCAGAGCCGTCCCTCTGTGGGCAACCACTACC	64
QY	122	GCGAGGTGTGCTCCGTGGCCACTGTTCTGTGCGGCGCTGGGGGCCCAAGGGCTGGCGGCTAG	181
Db	65	GCGAGGTGTGCTCCGTGGCCACTGTTCTGTGCGGCGCTGGGGGCCCAAGGGCTGGCGGCTAG	124
QY	182	TGCAGCGGGGGAGACCCGGCGGCTTTCGCGGCGCTGTGTGGCCATGTGCTGGTGTGCTGTGC	241
Db	125	TGCAGCGGGGGAGACCCGGCGGCTTTCGCGGCGCTGTGTGGCCATGTGCTGGTGTGCTGTGC	184
QY	242	CCCTGGGAGACAGGCGCGGCCCGCGCGGCCCTCCCTTCGCGAGGTGTCTGTCCGCGAAG	301
Db	185	CCCTGGGAGACAGGCGCGGCCCGCGCGGCCCTCCCTTCGCGAGGTGTCTGTCCGCGAAG	244
QY	302	AGCTGTGTGGCCGAGTGTGCAGAGGCTGTGCAGCGGCGGCGCGAAGAACGTGTGCGCT	361
Db	245	AGCTGTGTGGCCGAGTGTGCAGAGGCTGTGCAGCGGCGGCGCGAAGAACGTGTGCGCT	304
QY	362	TCGGGCTTGGGCGCTGTGTGACGAGGGGCGCGGGGGGCCCGCCGAGGCTTTCACACACACGC	421
Db	305	TCGGGCTTGGGCGCTGTGTGACGAGGGGCGCGGGGGGCCCGCCGAGGCTTTCACACACACGC	364
QY	422	TGGCAGGTACTGTGCCCAACAACGGGAGACGACGCACTCGGGGGGAGCGGGGGCGTGGGGGGC	481
Db	365	TGGCAGGTACTGTGCCCAACAACGGGAGACGACGCACTCGGGGGGAGCGGGGGCGTGGGGGGC	424
QY	482	TGCTGTCTGCAGCGGTGTGGGACGACGATGTGTCACTGTGTGACACGCTGCGGCGCTCT	541
Db	425	TGCTGTCTGCAGCGGTGTGGGACGACGATGTGTCACTGTGTGACACGCTGCGGCGCTCT	484
QY	542	TTGCTGTGTGTGGCTCCCACTGTGCGCTTACAGATGTGTGCGGGCGGCCCTGTACCAAGCTCG	601

Db	485	TTGTGCTGTGTGGCTTCCACGCTGGCCTTACCAAGTGTGCGGGCGCGCTGTACCAAGCTCG	544
QY	602	GCAGTGCACATCAGAGCCCGGCCGCCACACAGCTAGTGTGACCCGGAAGGAGCTGTGGGAT	661
Db	545	GGCGTGCACATCAGAGCCCGGCCGCCACACAGCTAGTGTGACCCCGGAAGGAGCTGTGGGAT	604
QY	662	GCGAACGGGCGCTGGAACCATATAGCTCAGAGGAGCGCGGGTCCCTGTGGGCTGTCAAGCCC	721
Db	605	GCGAACGGGCGCTGGAACCATATAGCTCAGAGGAGCGCGGGTCCCTGTGGGCTGTCAAGCCC	664
QY	722	CGGGTGGGAGGAGCGCGGGGGGCGAGTGCACCCGAACTGTGCGCTTGTGCCCAAGAGGGCCCA	781
Db	665	CGGGTGGGAGGAGCGCGGGGGGCGAGTGCACCCGAACTGTGCGCTTGTGCCCAAGAGGGCCCA	724
QY	782	GGCGTGGGAGCGCTGTAGCGCCGAGAGCGAGCGCCGTGGGACAGGGGTCTCGGGGCCACAC	841
Db	725	GGCGTGGGAGCGCTGTAGCGCCGAGAGCGAGCGCCGTGGGACAGGGGTCTGTGGGCCACAC	784
QY	842	CGGCGAGAGCGCGTGTGACCGAGTACCGTGTCTGTGTGTGTCACTTCCACAGACCG	901
Db	785	CGGCGAGAGCGCGTGTGACCGAGTACCGTGTGTCTGTGTGTGTCACTTCCACAGACCG	844
QY	902	CCGAAGAAAGCCACTCTTTGGAGGGTGGGCTCTGTGACAGCGGCCACTTCCACACCAATCCG	961
Db	845	CCGAAGAAAGCCACTCTTTGGAGGGTGGGCTCTGTGACAGCGGCCACTTCCACACCAATCCG	904
QY	962	TGGGCGCGACACACAGCGCGGGGCCCCCATCATGTGGCGCACACAGTCCCTGGGACA	1021
Db	905	TGGGCGCGACACACAGCGGGGCCCCCATCATGTGGCGCACACAGTCCCTGGGACA	964
QY	1022	CGCCTTGTCCCGGAGTGTAGCGCGAGAACCAAGCACTTCTCTACTCTCAGAGCACAAG	1081
Db	965	CGCCTTGTCCCGGAGTGTAGCGCGAGAACCAAGCACTTCTCTACTCTCAGAGCACAAG	1024
QY	1082	AGCAGCTGCGGGCCGCTCTCTACTCTCAGAGCTGTGAGGCCACAGCCTGACGTGGGCTGTGGA	1141
Db	1025	AGCAGCTGCGGGCCGCTCTCTACTCTCAGAGCTGTGAGGCCACAGCCTGACGTGGGCTGTGGA	1084
QY	1142	GGCTCTGTGAGAACCATCTTCTGTGGTTCAGAGCCCTGTGATGCCAGAGCACTCCCGCAGGT	1201
Db	1085	GGCTCTGTGAGAACCATCTTCTGTGGTTCAGAGCCCTGTGATGCCAGAGCACTCCCGCAGGT	1144
QY	1202	TGCCCGCGCTGCCCCAGCGCTACTGTGGCAATGTGGCCCCCTGTGTCTGTGAGCTGTGGGA	1261
Db	1145	TGCCCGCGCTGCCCCAGCGCTACTGTGGCAATGTGGCCCCCTGTGTCTGTGAGCTGTGGGA	1204
QY	1262	ACCAAGGCGAATGTGCCCTTACGGGGGTGTCCTCAAGAGAGCACTGGCGGCTGTGGAGTGTGGG	1321
Db	1205	ACCAAGGCGAATGTGCCCTTACGGGGGTGTCCTCAAGAGAGCACTGGCGGCTGTGGAGTGTGGG	1264
QY	1322	TCACCCCAAGCAAGCCGAGTGTGTGTCCCGGGAGAAAGCCCAAGGCTCTGTGTGGCGGCCCG	1381
Db	1265	TCACCCCAAGCAAGCCGAGTGTGTGTCCCGGGAGAAAGCCCAAGGCTCTGTGTGGCGGCCCG	1324
QY	1382	AGGAGAGGAGACAGACCCCGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1441
Db	1325	AGGAGAGGAGACAGACCCCGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1384
QY	1442	GGGAGGTGTACGGT	1501
Db	1385	GGGAGGTGTACGGT	1444
QY	1502	GCTCCAGGACAAAGAGCGCGCTTCCACAGGAACACCAAGAAATTTATCTCCCTGGGGGA	1561
Db	1445	GCTCCAGGACAAAGAGCGCGCTTCCACAGGAACACCAAGAAATTTATCTCCCTGGGGGA	1504
QY	1562	AGCATGTCCAAAGCTTCTCGTGTGAGAGGTGAAGTGAAGATGAGAGGTGTGGGACTGTGCTT	1621
Db	1505	AGCATGTCCAAAGCTTCTCGTGTGAGAGGTGAAGTGAAGATGAGAGGTGTGGGACTGTGCTT	1564
QY	1622	GGCTGTGCGAGAGCCCAAGGGTGTGTGTCTTCCGGCCGAGAGCAACGCTGTGCTGTAGG	1681
Db	1565	GGCTGTGCGAGAGCCCAAGGGTGTGTGTCTTCCGGCCGAGAGCAACGCTGTGCTGTAGG	1624





OY	542	TTGTGCTGTGTGGCTTCCAGCTCGGCCTTAACAGTGTTGCGGGCGGCCGCTGTACCAGCTCG	601
Db	4464	TTGTGCTGTGTGGCTTCCAGCTCGGCCTTAACAGTGTTGCGGGCGGCCGCTGTACCAGCTCG	4523
OY	602	GCGCTGCCACTCAGAAGCCGGCCCCGGCACACGGTAGTGGAACCCCGAAGGGCTGTGGGAT	661
Db	4544	GCGCTGCCACTCAGAAGCCGGCCCCGGCACACGGTAGTGGAACCCCGAAGGGCTGTGGGAT	4583
OY	662	GCGAAGGGCTGTGNAACCATATAGCGTTCAGAGGAGCGGGGTCTCCCTGTGGAGCTGCACGCC	721
Db	4584	GCGAAGGGCTGTGNAACCATATAGCGTTCAGAGGAGCGGGGTCTCCCTGTGGAGCTGCACGCC	4643
OY	722	CGGGTGCGAGAGGCGCGGGGGGCACTGCGACCGCAAGTCTTCGCTGTGCCAAGAGGCCCA	781
Db	4644	CGGGTGCGAGAGGCGCGGGGGGCACTGCGACCGCAAGTCTTCGCTGTGCCAAGAGGCCCA	4703
OY	782	GGCGTGGGCGTGGCCCTGTAGGCGGAGGGGGAAGCCGTTGGGCGAAGGGGTCTGGGGCCAC	841
Db	4704	GGCGTGGGCGTGGCCCTGTAGGCGGAGGGGGAAGCCGTTGGGCGAAGGGGTCTGGGGCCAC	4763
OY	842	CGGGCAGGAGCAGTGAGACCGAGTACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	901
Db	4764	CGGGCAGGAGCAGTGAGACCGAGTACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	4823
OY	902	CCGAAGAAGCCACTCTTTTGGAGGGTGCCTCTTGGCAGCGCCACTCCCACCCATCCG	961
Db	4824	CCGAAGAAGCCACTCTTTTGGAGGGTGCCTCTTGGCAGCGCCACTCCCACCCATCCG	4883
OY	962	TGGGCGCGCAGCACACACGCGGGGCCCCCATCATGCGGGGCGACAGCTGCCCTGGGACA	1021
Db	4884	TGGGCGCGCAGCACACACGCGGGGCCCCCATCATGCGGGGCGACAGCTGCCCTGGGACA	4943
OY	1022	CGCCTGTCCCGSGGTGTACGCGCAGAACCAAGCAACTTCTTACTCTCTCAAGCACAAG	1081
Db	4944	CGCCTGTCCCGSGGTGTACGCGCAGAACCAAGCAACTTCTTACTCTCTCAAGCACAAG	5003
OY	1082	AGCAGCTGCGGCGCTCTTCTTACTCACTCTGTGAGGCCAGCTGTGACTGTGCGCTCGGA	1141
Db	5004	AGCAGCTGCGGCGCTCTTCTTACTCACTCTGTGAGGCCAGCTGTGACTGTGCGCTCGGA	5063
OY	1142	GGCTGTGGAACCATCTTCTGTGGTTTCCAAGCCCTGGATCCAGGGGACTCCCGCGAGT	1201
Db	5064	GGCTGTGGAACCATCTTCTGTGGTTTCCAAGCCCTGGATCCAGGGGACTCCCGCGAGT	5123
OY	1202	TGCCCGCGCTGCCAGCGCTACTGTGCAAAATGCGGCCCTTCTTCTGTGAGCTGTGTGGA	1261
Db	5124	TGCCCGCGCTGCCAGCGCTACTGTGCAAAATGCGGCCCTTCTTCTGTGAGCTGTGTGGA	5183
OY	1262	ACCAAGCGCACTGCCCCCTACGGGGTGTCTTCAAAGCAGCACTGCCCGCTGCGACTCGCG	1321
Db	5184	ACCAAGCGCACTGCCCCCTACGGGGTGTCTTCAAAGCAGCACTGCCCGCTGCGACTCGCG	5243
OY	1322	TCACCCCAAGCAGCGGGTGTGTGTGCGGGGGAAGCCCAAGGGTCTGTGGCGGGCCCCG	1381
Db	5244	TCACCCCAAGCAGCGGGTGTGTGTGCGGGGGAAGCCCAAGGGTCTGTGGCGGGCCCCG	5303
OY	1382	AGGAGGAGACACAGACCCCGCTGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	1441
Db	5304	AGGAGGAGACACAGACCCCGCTGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	5363
OY	1442	GGCAGAGTGTACGGCTTGTGTGCGGGCTGTGCTGCGCGGGCTGTGTGTGTGTGTGTGTGT	1501
Db	5364	GGCAGAGTGTACGGCTTGTGTGCGGGCTGTGCTGCGCGGGCTGTGTGTGTGTGTGTGTGT	5423
OY	1502	GCTCAGGACAAAGAAAGCGCGCTTCTCTCAAGGAACAAAGAAATTATCTCCCTGGGGA	1561
Db	5424	GCTCAGGACAAAGAAAGCGCGCTTCTCTCAAGGAACAAAGAAATTATCTCCCTGGGGA	5483
OY	1562	AGCATGCGCAAGCTTCTGCTGTGAGAGTGTGAGTGGAAATGAGGCTCGGGACTGCGCCTT	1621
Db	5484	AGCATGCGCAAGCTTCTGCTGTGAGAGTGTGAGTGGAAATGAGGCTCGGGACTGCGCCTT	5543
OY	1622	GCGTGCAGAGCCCAAGGGGTGTGTGTCTCCGGCCGAGAGCACTGTTGTGCGTAGG	1681

Db	5544	GGCTGCGAGAGACCAGGGGTGGCTGTCTCCGGCCGAGACACCGTGTGCTGAGG	5603
QY	1682	AGATCTGAGCAAGTTCCTGCACATGGCGATGAGATGTGTACGTGTGAGCTGTCAGGT	1741
Db	5604	AGATCTGAGCAAGTTCCTGCACATGGCGATGAGATGTGTACGTGTGAGCTGTCAGGT	5663
QY	1742	CTTCTCTTTATGTACGAGACCAAGTTCCTGTTTCAAAAGACAGGCTCTTTTTCACGGAGA	1801
Db	5664	CTTCTCTTTATGTACGAGACCAAGTTCCTGTTTCAAAAGACAGGCTCTTTTTCACGGAGA	5723
QY	1802	GTGTCTGAGCAAGTTCGAAAGCATTTGGATTCAGACAGCACTTGAAGAGGGTGCAGCTGC	1861
Db	5724	GTGTCTGAGCAAGTTCGAAAGCATTTGGATTCAGACAGCACTTGAAGAGGGTGCAGCTGC	5783
QY	1862	GGGAGACTGTGGAAGCAGAGGTTCAGAGCCAGCATTCGGAAGCCAGGCCCCCTGCTGACGT	1921
Db	5784	GGGAGACTGTGGAAGCAGAGGTTCAGAGCCAGCATTCGGAAGCCAGGCCCCCTGCTGACGT	5843
QY	1922	CCAGACTCCGGTTCATCCCAAGCCTGACGGGCTGCGGCCGATTTGTGAACATGACATACG	1981
Db	5844	CCAGACTCCGGTTCATCCCAAGCCTGACGGGCTGCGGCCGATTTGTGAACATGACATACG	5903
QY	1982	TGCTGGGAGCCAGAACTGTTCCGCGAGAGAAAAGAGGGCCGAGCGTCTCACTCGAGGTGA	2041
Db	5904	TGCTGGGAGCCAGAACTGTTCCGCGAGAGAAAAGAGGGCCGAGCGTCTCACTCGAGGTGA	5963
QY	2042	AGGCACTGTTCAGCGGTGTCAAACTACGAGGGGGGGGGGGCCGGCCCTCTCTGGGGCCCT	2101
Db	5964	AGGCACTGTTCAGCGGTGTCAAACTACGAGGGGGGGGGGGCCGGCCCTCTCTGGGGCCCT	6023
QY	2102	CTGTGCTGGGCTTGACAGATATCCACAGAGGCGCTGGCGACCTTGTGCTGCGTGTGGGGG	2161
Db	6024	CTGTGCTGGGCTTGACAGATATCCACAGAGGCGCTGGCGACCTTGTGCTGCGTGTGGGGG	6083
QY	2162	CCGAGGACCCGCGCCTGAGCTGTACTTGTCAAGTGTGATGTAGCGGGCGGTACAGACA	2221
Db	6084	CCGAGGACCCGCGCCTGAGCTGTACTTGTCAAGTGTGATGTAGCGGGCGGTACAGACA	6143
QY	2222	CCATCCCCCAGGACAGGCTTCACGGAGGTCATCCGACAGATATGATAAACCAGAAACAGCT	2281
Db	6144	CCATCCCCCAGGACAGGCTTCACGGAGGTCATCCGACAGATATGATAAACCAGAAACAGCT	6203
QY	2282	ACTGCGTCCGTGCGGTATCCCGTGTGTCAGAAAGCCGCCAATGGGCGACGTCCGCAAGACCT	2341
Db	6204	ACTGCGTCCGTGCGGTATCCCGTGTGTCAGAAAGCCGCCAATGGGCGACGTCCGCAAGACCT	6263
QY	2342	TCAAGAGCCACGTCTTACCTTGAACAGACTCCAGCCGTACATGCGACAGTTCGTGGCTC	2401
Db	6264	TCAAGAGCCACGTCTTACCTTGAACAGACTCCAGCCGTACATGCGACAGTTCGTGGCTC	6323
QY	2402	ACCTGCAAGAACACAGCCCGCTGAGGGATGCGCGTCATGTGACACAGCCCTCCCTGTA	2461
Db	6324	ACCTGCAAGAACACAGCCCGCTGAGGGATGCGCGTCATGTGACACAGCCCTCCCTGTA	6383
QY	2462	ATGAGGCCAGCAGTGGCCCTTCTTCACAGCTCTTCTACGCTTCATGTGCAACACAGCCGCTGC	2521
Db	6384	ATGAGGCCAGCAGTGGCCCTTCTTCACAGCTCTTCTACGCTTCATGTGCAACACAGCCGCTGC	6443
QY	2522	GCATCAGGGGCAAGTCTTACGTTCAGTGCAGGGGATCCCGCAGGGCTCCATCTCTTCCA	2581
Db	6444	GCATCAGGGGCAAGTCTTACGTTCAGTGCAGGGGATCCCGCAGGGCTCCATCTCTTCCA	6503
QY	2582	CGCGTCTGTGAGCGCTGTGCTACAGCGGACATGAGGAACAAAGCTTTTGGGGGATTGGGC	2641
Db	6504	CGCGTCTGTGAGCGCTGTGCTACAGCGGACATGAGGAACAAAGCTTTTGGGGGATTGGGC	6563
QY	2642	GGGAGCGGCTCTCTCTGCTTTGGTGTGATGATTTCTTGTGTGACACCTCACCTCACCC	2701
Db	6564	GGGAGCGGCTCTCTCTGCTTTGGTGTGATGATTTCTTGTGTGACACCTCACCTCACCC	6623
QY	2702	ACGCGAAAACCTTCTTACAGACCTGTGTCGAGGTGTCCCTGAGTATGCTGCGTGTGTA	2761



QY 1622 GGCCTCCAGAGAGCCAGGGGTGGCTGTTCGGGCCGAGAGACCGTCTGCTGAGG 1681  
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Db 4045 GGCCTCCAGAGAGCCAGGGGTGGCTGTTCGGGCCGAGAGACCGTCTGCTGAGG 3986  
1682 AGATCTGGGCAAGTTCCTGCACTGCTGATGAGTGTAGTGTGCTGAGCTGCTGAGT 1741  
|||||  
Db 3985 AGATCTGGGCAAGTTCCTGCACTGCTGATGAGTGTAGTGTGCTGAGCTGCTGAGT 3927  
1742 CTTCTTTTATGTACAGGAGACCAAGTTCAAAAGAACAGGCTCTTTTTCACCGAAGA 1801  
|||||  
Db 3926 CTTCTTTTATGTACAGGAGACCAAGTTCAAAAGAACAGGCTCTTTTTCACCGGCGA 3867  
1802 GTGCTGGAGCAAGTTCGAAAGCATTTGAAATCAGACACTTGAAGAGGCTGACGTGC 1861  
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Db 3866 GTGCTGGAGCAAGTTCGAAAGCATTTGAAATCAGACACTTGAAGAGGCTGACGTGC 3807  
1862 GGGAGCTGTGGAGAGCAGAGGTTCAGAGCATTCGGGAAGCCAGGCGCGCTGAGCT 1921  
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Db 3806 GGGAGCTGTGGAGAGCAGAGGTTCAGAGCATTCGGGAAGCCAGGCGCGCTGAGCT 3747  
1922 CCAGACTCCGCTTCATCCCAAGCTGACGGGCTGCGGCGCATTTGTGAACATGACCTAG 1981  
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Db 3746 CCAGACTCCGCTTCATCCCAAGCTGACGGGCTGCGGCGCATTTGTGAACATGACCTAG 3687  
1982 TCGTGGAGCCAGAAAGTTCGCGCAGAGAAAGAGGCGCGAGCTGTCACCTGAGGGTGA 2041  
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Db 3686 TCGTGGAGCCAGAAAGTTCGCGCAGAGAAAGAGGCGCGAGCTGTCACCTGAGGGTGA 3627  
2042 AGGACAGTTCAGAGGTTCAGAACTACAGAGGGGGGGGGCGCGCGCTCTGCGGGCGCT 2101  
|||||  
Db 3626 AGGACAGTTCAGAGGTTCAGAACTACAGAGGGGGGGGGCGCGCGCTCTGCGGGCGCT 3567  
2102 CTGTGCTGGGCTTGAGATATCCACAGAGGCTTGCGGCACTTGTGCTGCTGCTGCTG 2161  
|||||  
Db 3566 CTGTGCTGGGCTTGAGATATCCACAGAGGCTTGCGGCACTTGTGCTGCTGCTGCTG 3507  
2162 CCCAGAGACCGCGCGCTGAGCTGTACTTGTTCAGAGGTGATGTGACGGGCGCTGACAGA 2221  
|||||  
Db 3506 CCCAGAGACCGCGCGCTGAGCTGTACTTGTTCAGAGGTGATGTGACGGGCGCTGACAGA 3447  
2222 CCATCCCCCAGAGAGGCTTCAGAGAGGTTCAGGAGCATTCAGAAACCCAGAACAGT 2281  
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Db 3446 CCATCCCCCAGAGAGGCTTCAGAGAGGTTCAGGAGCATTCAGAAACCCAGAACAGT 3387  
2282 ACTGCGTGGCTGAGTATGCGGTGTCAGAAAGGCGCGCATGAGGACGTCCGCAAGGCT 2341  
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Db 3386 ACTGCGTGGCTGAGTATGCGGTGTCAGAAAGGCGCGCATGAGGACGTCCGCAAGGCT 3327  
2342 TCAAGAGCCAGAGTCTTACCTTGAACAGCTTCAGCCGTACATGCGAGAGTTCGTGCTC 2401  
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Db 3326 TCAAGAGCCAGAGTCTTACCTTGAACAGCTTCAGCCGTACATGCGAGAGTTCGTGCTC 3267  
2402 ACCTGCAAGAGAGCAGGCGCGCTGAGGAGTGCCTGCTCATGAGAGAGGCTCCCTCCGA 2461  
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Db 3266 ACCTGCAAGAGAGCAGGCGCGCTGAGGAGTGCCTGCTCATGAGAGAGGCTCCCTCCGA 3207  
2462 ATGAGGCGAGAGTGGGCTTCTGACGCTTCTTCTACGCTTATGTCACCAAGGCGCTGC 2521  
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Db 3206 ATGAGGCGAGAGTGGGCTTCTGACGCTTCTTCTACGCTTATGTCACCAAGGCGCTGC 3147  
2522 GCATCAGGGGCAAGTCTTACGCTTCAGTCCAGGGGATCCGCAAGGCTCCATCTCTCA 2581  
|||||  
Db 3146 GCATCAGGGGCAAGTCTTACGCTTCAGTCCAGGGGATCCGCAAGGCTCCATCTCTCA 3087  
2582 CGCTGCTGTGAGGCTTGTGACGAGCAGATGAGAGAACAAAGCTTTGCGGGGATTCGGC 2641  
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Db 3086 CGCTGCTGTGAGGCTTGTGACGAGCAGATGAGAGAACAAAGCTTTGCGGGGATTCGGC 3027  
2642 GGGACGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2701  
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Db 3026 GGGACGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2967

QY 2702 ACGGAAACCTTCTCTCAGAGACCTGTGTCAGAGTGTCCCTGATATGAGTGTGTA 2761  
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Db 2966 ACGGAAACCTTCTCTCAGAGACCTGTGTCAGAGTGTCCCTGATATGAGTGTGTA 2907  
2762 ACTTGGGAGAGACAGTGTGAACTCCCTGTGAAGAGAGGCGCTGGGTGGCAGGCTT 2821  
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Db 2906 ACTTGGGAGAGACAGTGTGAACTCCCTGTGAAGAGAGGCGCTGGGTGGCAGGCTT 2847  
2822 TTGTTCAAGATGCGGCGCCACGAGGCTAT 2848  
|||||  
Db 2846 TTGTTCAAGATGCGGCGCCACGAGGCTAT 2820

Search completed: October 7, 2003, 09:09:59  
Job time : 680.622 secs